Trium

Geo GPRS

Menu Map

- **Network Serv.** *
  - Applications *
  - Services *
  - Information *
- **Voice Mail** *
  - Call *
  - Number *
  - Alert *
- **Phone Book**
  - Recall
  - Store
  - Remaining
  - Own numbers
  - Fixed dialling *
- **Messages**
  - Inbox *
  - Outbox *
  - Write new
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  - Alert *
- **Calls & Times**
  - Calls log
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  - Sending my ID *
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  - Network *
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  - CUG *
- **Broadcast** *
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  - Auto features
  - Security
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- **Office Tools**
  - Scratchpad
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  - Alarm clock
- **Games** *
  - Reshape *
  - Push *
  - Options *
- **Internet**
  - Home page *
  - Bookmarks *
  - Other site *
  - Profiles *
  - Clear cache *
  - Settings *
- **Infrared port**
  - Open
  - Close

* The availability and appearance of these features in the menu are dependent upon your subscription and the services provided by your network operator

Remove this card, fold it and put it in your wallet.

ENGLISH
GEO-GPRS

Triumph Geo GPRS

Aide-mémoire

General operations

Holding/retrieving a call	Press ✆
Viewing the last dialled numbers	Press ✆ and press ▲ or ▼
Calling the voice mail centre	Press and hold down 1
Reading a new SMS message	Press **Read**
Choosing another ring tone	Select **Ring tone** from the **Settings** - **Tones** menu. Press ▲ or ▼ to choose the ring tone and press ▶

Phonebook operations

Storing a number	Press ▶, select **Phone Book**, select **Store**, select **Phone names** or **SIM names** and follow the instructions
Dialling a stored number	Press ◀, select the entry, press ✆

Turning your phone on or off	Press and hold down ⏻
Making a call	Enter the number and press ✆
Answering a call	Press ✆
Ending a call	Press ⏻
Adjusting the earpiece volume	Press ▲
Muting the incoming ring tone	Press ▲
Turning keylock on/off	Press **Lock/Unlock** plus #
Turning the microphone on/off	Press **Mute/Unmute**

User Guide

USER OPERATIONS

This guide describes the operation of the Trium
dual band GSM telephone the GEO-GPRS
Edition 1, 2000.

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Whilst every effort has been made to ensure the accuracy of the instructions contained in this guide, Mitsubishi Electric reserves the right to make improvements and changes to the product described in this guide and/or to the guide itself, without prior notice.

Introduction

Thank you for purchasing the Trium Geo-GPRS dual band mobile telephone. The mobile telephone described in this guide is approved for use on both the GSM 900, 1800 and GPRS networks. Services and display messages may be different dependant upon your operators implementation.
As with all types of radio transceivers this mobile telephone emits electromagnetic waves and conforms to international regulations in so far as it is used under normal conditions and in accordance with the safety and warning messages given below and on pages 12 - 14 and 17.

General safety

It is important to follow any special regulations regarding the use of radio equipment, due to the possibility of radio frequency, RF, interference. Please follow the safety advice given below.

Switch off phone and remove the battery when in an aircraft. The use of mobile telephones in an aircraft may endanger the operation of the aircraft, disrupt the cellular mobile phone network and is illegal. Failure to observe this instruction may lead to suspension or denial of mobile telephone services to the offender, or legal action, or both.

Switch off phone when at any refuelling point or near inflammable material.

Switch off phone in hospitals and any other place where medical equipment may be in use.

Respect restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress.

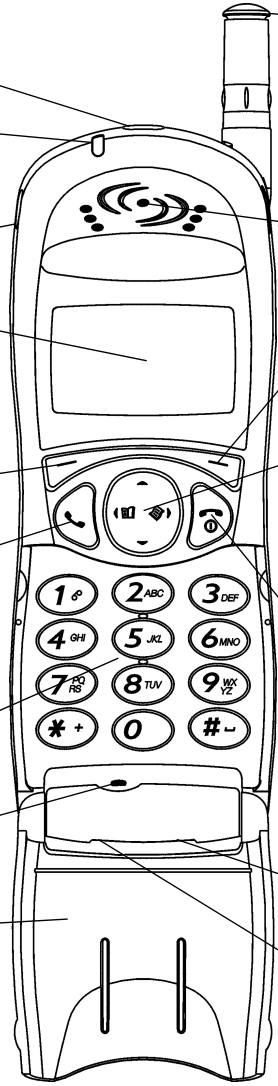
There may be a hazard associated with the operation of phones close to inadequately protected personal medical devices such as hearing aids and pacemakers. Consult your doctor or the manufacturers of the medical device to determine if it is adequately protected.

Operation of phone close to other electronic equipment may also cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers recommendations.

Avoid prolonged contact between the antenna and your skin when the phone is switched on.

This apparatus is intended for use only when supplied with power from AC/DC adaptor chargers (FZA-0002A, FZA-0003A, FZA-0004A or FZA-0005A), desk top charger (FZA-0014A), and vehicle kits (FZA-0009A, FZA-0024A, FZA-0021A, FZA-0010A, FZA-0012A).
Use of any other charger or adaptors will invalidate any approval given to this apparatus and may be dangerous.

The phone at glance



Infrared module

LED
Call and battery charge indicator

Headset socket

Graphic display
Telephone numbers, menus, messages, etc. are displayed here

Left softkey
(programmable)

Call/SEND key
Dials displayed number or name and answers calls

Alphanumeric keys
to enter text and telephone numbers

Microphone

Flip
Open when you want to use the alphanumeric keys
NB: opening or closing the flip does not answer or end a call

Retractable antenna
Extend the antenna fully when making or receiving a call

Earpiece

Right softkey
(programmable)

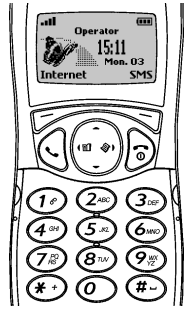
Cursor key
Navigates around the memories and menus

On/Off, END key
Hold down to turn on or off the phone. Press to end a call or return to standby display

Accessories socket

AC/DC charger socket

Keypad layout



List of keys

Programmable softkeys or selection keys.
Perform the functions indicated by the text above it.

End, On/Off key. Long press to turn the phone on or off.
Press briefly to end or reject a call.
Short press during a menu operation will exit to the standby display

Send key. Press to make or answer a call.
Press in standby display recalls last dialled numbers.
Press during an internet connection to display the options menu.

Cursor key.
Press to the left to view the phonebook entries or return to the previous display.
Press to the right to enter the main menu and/or select a feature from displayed list.
Short press upwards to scroll up the menus. Press to enter volume adjustment menu from the standby display.
Short press downwards to scroll down the menus. Press to enter alert mode setting from the standby display.
This key is also used in 'Edit Mode' to move the cursor through the displayed text.

Alphanumeric keys, ⓪ - ⑨, ⊛, #.
Enters numbers, characters and punctuation marks.
①, or press and hold down to call the voice mail number.
② to ⑨ keys. Press and hold to speed dial preferred numbers.
⊛, or press and hold down to enter international + prefix, 'P' symbol or '_' underscore wildcard.
#. Used with keypad lock softkey to lock/unlock the keypad.

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Using this guide

Please take time to read this user guide. It contains a lot of useful information about your phone and the way that it operates on the network. The GSM network is now worldwide and allows you to make and receive calls to and from other countries (called roaming) as if you were in your home country. Some features included in this guide are called network features and are supplied by service providers. However before you can take advantage, or even activate many of the network features offered by the networks, you must subscribe to the services you require. For a full list and explanation of network features please consult with your service provider.

Some networks may provide you with Data & Fax services. To use these special services the Data & Fax kit is needed (see Accessories list on page 76). For further information please refer to the instructions contained in the Data & Fax kit and/or contact your service provider for details.

Using the keys to follow the actions described in this guide

To help you quickly understand your way around this manual we have used symbols and expressions that are present on the keys and in the display itself

	means the left softkey.
	means the right softkey.
	means the right arrow on the round cursor.
	means the left arrow on the round cursor.
	means the up arrow on the round cursor.
	means the down arrow on the round cursor.
	means the SEND key.
	means the END key.
Function	means the softkey with the corresponding function name. For example, **Internet** means press the softkey under the word **Internet**.
Messages	words seen in this format are the actual words seen in the display.
Select	means use and on the round cursor key to scroll to the required item in the menu and validate by pressing . For example, select **Phonebook** means scroll to the menu item **Phonebook** and validate by pressing .
Press	means press the corresponding key. Press means press the SEND key.

Understanding the Graphic Display Indicators (Icons)

The graphic display has a main area capable of displaying up to four lines of characters plus one row of special display indicators or icons.

These icons are used to display the phone's operational condition during use.

The display also shows alphabet characters and numbers as well as the phones menu list and instructions to the user.
The special icons which appear in the display during operation have the following meaning:

- **SIM** memory in use
- **Phone** memory in use
- **Roaming**. Is displayed when the phone is logged on to a network different from its home network.
- **Short message service (SMS)**. Is displayed when one or many short messages have been received and have not been read. It flashes when the SMS message bank is full and cannot store new messages.
  The availability of this feature is network dependent.
- **Voice mail**. Is displayed when a voice mail message has been received and stored by the networks voice mail centre.
  The availability of this feature is network dependent.
- **Call diverting**. Indicates whether incoming calls are permanently being diverted. The availability of this feature is network dependent.
- **Battery level indicator**. Is permanently displayed to indicate the current charge level of the battery. Three levels are shown. low, medium, full. It flashes when the battery is almost empty.
- **Arrow keys**. These icons are seen during menu operation to indicate that more items in the menu can be displayed if or are pressed. More than one arrow may show at any one time.
- **Line 2**. It indicates the second line is in use.
  The availability of this feature is network and subscription dependent.
- **Unanswered call**. Is displayed when a incoming call is unanswered.
- **Signal strength level**. There are four levels. It indicates the strength of the received signal. The more bars the stronger the signal. If no network is available the display remains blank.
- **Keypad lock**. It indicates whether keypad lock is on or off.
- **CUG**. Indicates this service is active.
- **Alarm clock** icon
- **Vibrator alert** icon
- **Ring tone off**. All tones are off.
- **Infrared port** icon. It indicates the infrared port is active i.e. data can be received from or sent by the infrared port.
- **GPRS service** icon. It indicates data packet services are available.

Getting started

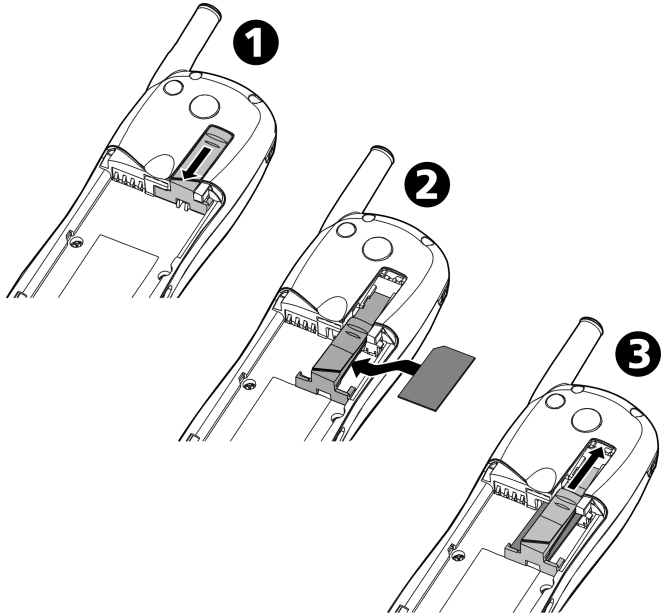
In order to become familiar with the phone straightaway follow these simple steps.

Preparing to make your first calls

Inserting the SIM card

Unpack the phone and insert the SIM card into the holder.

❶ Open the SIM card holder as shown below.
❷ Insert the SIM card gently as shown with the gold contacts facing down and the bevelled corner of the card at the top left.
❸ Push the SIM card holder back into position.

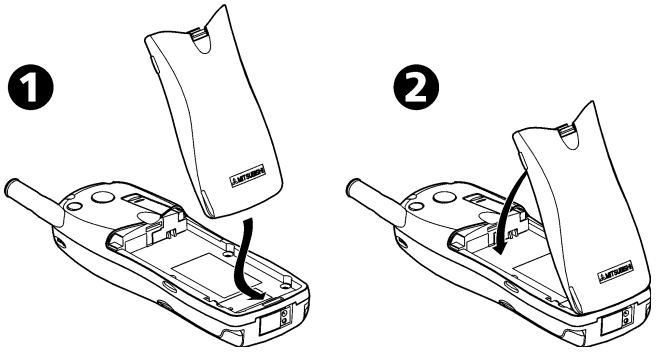


If the SIM card has been inserted the wrong way round or is damaged **Check SIM!** will be displayed. Remove the SIM card, check that it is the right way round and re-insert it as described.

Fitting the battery

Connect the battery as shown below.

1. Position the battery onto the phone as shown
2. Push down the opposite end of the battery onto the phone until the battery catch 'clicks' shut. Check the battery is securely in place.



☑ If there is not enough charge in the battery to power the phone follow the instructions for battery charging on page 16.

Basic operations

Turning on the phone

1. Press and hold down ⏻. A switch on tone will be heard.
2. If the mobile is locked, **Code:** will be displayed. Enter the 4 digit phonelock code and press **OK**.
3. If your SIM is PIN protected, **Enter PIN:** will be displayed. Enter the PIN code and press **OK**.

☑ See pages 13 and 61 for more details on your PIN and lock codes.

An animated screen icon will be displayed.

Standby display

This is followed by a registration tone after which the name of the network and/or service provider will be displayed together with the time and date, signal and battery level indicators and the **Internet** and **SMS** softkey functions.

See page 64 on how to set the time and the date.

This is the normal standby display:

will also appear in the standby display if your phone is connected to a GPRS network.

If the **Mode of operation** value was set to **Modem** (see page 51) and if the phone is attached to a GPRS network, the standby display will be the following:

Making a call

1. Enter the desired telephone number using the numeric keys (① - ⑨ and ⓪). A maximum of 46 digits can be entered. Correct any mistakes by pressing **Clear**. Holding down this key will clear the whole display.
2. To dial (send) the number press .

When the call is connected the conversation will be heard in the earpiece and a call timer will be displayed.

NB: For best results use the antenna fully extended when making or receiving calls.

Receiving a call

When a call is received the phone will ring. The LED on the top of the phone will flash green and the flashing will be shown. The backlight will also come on if the phone was set to do so or if in silent mode.

To accept (answer) the call,

Press .

☑ If the ring tone volume is set to zero (off) or if the phone has been set to 'Vibrate' mode, no audible sound will be heard.

To reject, or return the busy signal to the caller.

Press .

Ending a call

Press .

☑ Closing the flip does not end a call.
Waiting a few seconds or pressing the Exit softkey will return to the standby display.

Turning off the phone

Press and hold down .

A switch off tone will sound to confirm your action. During switch off a display animation will be shown. The mobile will then turn off.

☑ Do not turn off the phone by removing the battery as data which may need to be saved in the SIM will be lost. See also page 56 for more 'customising your phone' details.

Safety information

Vehicle safety

- Respect national regulations on the use of mobile telephones in vehicles.
- Road safety always comes first! Always give your full attention to driving.
- Do not use a handheld phone whilst driving. If you don't have a handsfree car kit, stop and park your vehicle safely before using your phone.
- If equipped with a correctly installed vehicle kit allowing "hands free" operation and you need to make or receive a call ensure that it is done sensibly and safely. Use pre-programmed numbers where possible and keep calls short and routine.
- If incorrectly installed in a vehicle the operation of mobile telephones could interfere with the correct operation of the vehicle electronics, such as ABS anti-lock brakes or air bags. To avoid such problems ensure that only qualified personnel carry out the installation. Verification of the protection and operation of the vehicle electronics should form part of the installation. If in doubt consult with the manufacturer.
- Do not place the phone on the passenger seat or where it could break loose during sudden breaking or a collision. Always use the holder.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Care and maintenance

This mobile telephone is the product of advanced engineering, design and craftsmanship and should be treated with care. The suggestions below will help you to enjoy this product for many years.

- Do not expose the phone to any extreme environment where the temperature or humidity is high.
- Do not expose or store in cold temperatures. When the phone warms up after switch on, to its normal temperature, moisture can form inside where it may damage the electrical parts.
- Do not attempt to disassemble the phone. There are no user serviceable parts inside.
- Do not expose the phone to water, rain or spilt beverages. It is not waterproof.
- Do not abuse this phone by dropping, knocking or violent shaking. Rough handling can damage it.
- Do not clean the phone with strong chemicals or solvents. Wipe it only with a soft, slightly dampened cloth.
- Do not place the telephone alongside computer discs, credit or travel cards or other magnetic media. The information contained on discs or cards may be affected by the phone.

- Do not connect incompatible products. The use of third party equipment or accessories, not made or authorised by Mitsubishi Electric, may invalidate the warranty of your phone and may be a safety risk.
- Do not remove the labels. The numbers on it are important for service and other related purposes.
- Do contact an authorised service centre in the unlikely event of a fault.

Your responsibility

This GSM mobile telephone is under your responsibility. Please treat it with care respecting all local regulations. It is not a toy therefore keep it in a safe place at all times and out of the reach of children.
Try to remember the phonelock and PIN codes associated with the use of this phone.
Become familiar with and use the security features to block unauthorised use
If your phone and/or SIM card are lost or stolen. Call your service provider immediately to prevent illegal use.
When not in use lock, turn off the phone and remove the battery.

Security codes

The phone and SIM card are delivered to you pre-programmed with codes that protect the phone and SIM card against unauthorised use.
When requested to enter any of the codes, key in the number (appears as * asterisks in the display) and press **OK**.
Keying mistakes can be erased by pressing **Clear**.
If you enter the wrong code an appropriate message will be displayed.
Codes supplied with the SIM card are:

PIN and PIN2 codes (4-8 digits)

The PIN (Personal Identity Number) is supplied with all SIM cards and protects the card against unauthorised use.
The PIN2 code, supplied with some SIM cards, is required to gain access to some features in the phone (such as fixed dialling numbers) for which another level of security is required.
If **Enter PIN:** appears in the display, enter the code and press **OK**.
Entering the wrong PIN code three times in succession will disable the SIM card and the message **SIM Blocked. Enter PUK:** will appear in the display. To unblock the SIM you will need the PUK (PIN Unblock Key) code, obtainable only from your service provider.

PUK and PUK2 codes (8 digits)

The PUK code is supplied with the SIM card and is used to unblock a disabled SIM card.
When requested enter the PUK code and press **OK**. You will be requested to reset the PIN code. Follow the instruction in the display.

The PUK2 code is required to unblock the PIN2 code.

Code supplied by the airtime service provider

Call barring password (4 digits)

This password is used to bar various types of calls, made or received, from the phone. See page 53 for more details.

Code supplied by the manufacturer

Phonelock code (4 digits)

This code is set to all zeros on delivery and is user re-settable. Once changed it cannot be identified by the manufacturer over the phone. See page 61 for more details.

It is strongly recommended that you remember and make yourself familiar with the purpose and operation of these codes.

Emergency calls

In Europe, provided the phone has GSM service, emergency calls can be made using the European standard emergency number, 112. Emergency calls can even be made if the phone is PIN or electronically locked or call barred. In some countries local emergency numbers can still be used for emergency purposes but the phone may have to contain a valid SIM card.
When making an emergency call remember to give all the necessary information as accurately as possible. The phone may be the only means of communication at the scene of an emergency therefore do not cut off the call until told to do so.

☑ Mobile phones rely on wireless and landline networks which cannot be guaranteed in all conditions. Therefore you should never rely solely on wireless phones for essential emergency communications.

Disposing of waste packaging

The packaging used for this phone is made of recyclable materials and as such should be disposed of in accordance with your national legislation on the protection of the environment.
Please take care to separate the cardboard and plastic elements and to dispose of them in the correct manner.

Preparing the phone for operation

SIM card

Before you can use your phone a valid SIM card must be inserted into the SIM card holder.
If a SIM card is not inserted, or inserted incorrectly **Check SIM!** will be displayed when the phone is turned on. See "Inserting the SIM card", page 8.

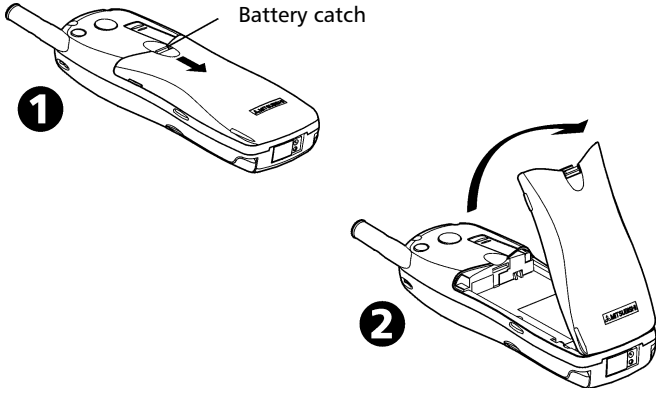
Battery

Fitting

See "Fitting the battery", page 9.

Removing

❶ Push and hold up the battery catch.
❷ The battery will be released and can now be removed.

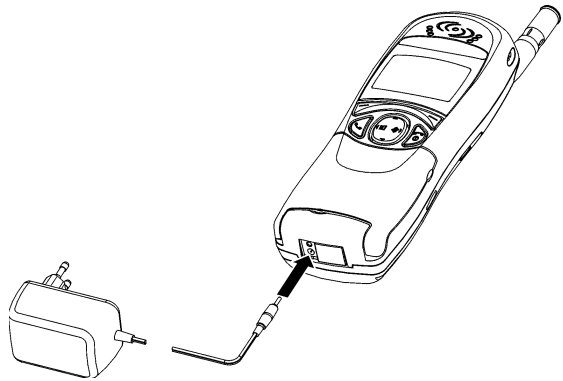


Low battery warning

When the battery power falls to its lowest level the message **Low Battery!** will be displayed and a low battery warning tone will sound. If you are on a call terminate the call and turn off the phone by pressing and holding down .
Recharge the battery as shown below or swap it for a charged one. **Do not turn off the phone by removing the battery.** Data that needs to be saved by the SIM may be lost.

Charging

To ensure a long life for your battery, re-charge it only when the **Low Battery!** warning is displayed and the 'low battery' tone is heard. Connect the charger to the phone as shown.



Plug the charger into the wall socket and turn on the mains. The battery will start to charge.
The phone can be used whilst charging but it will increase the charging time.

Charging indicators when the mobile is off

During charging **Charging...** will be displayed. The LED will be red. When charging is finished, **Battery full** will be displayed and the LED will change to green.

Charging indicators when the mobile is on

During charging the three section battery icon will flash 1-2-3 bars continuously. When charging is completed the battery indicator will

show three solid bars. The LED is not used as a charging indicator when the mobile is on. If a call is received during charging the LED will flash rapidly green.
It is normal for the battery to get warm during charging. At the end of charging disconnect the charger from the phone, switch off and remove the plug from the mains.

Typical charging times using the AC adaptor, FZA-0003A

Battery type	Typical charging time
Small battery, FZA-0001A	2 hrs 30

Battery use and safety information

A battery can be charged hundreds of times but will gradually wear out. When the operating time (standby and talk time) is noticeably shorter than normal it is time to buy a new one.

- Do not leave batteries connected to a charger longer than necessary, overcharging will shorten battery life.
- Disconnect battery chargers from the power source when not in use.
- Do not expose batteries to high temperatures or humidity.
- Do not dispose of the batteries in fire. They may explode.
- Avoid putting the batteries into contact with metal objects which may short circuit the battery terminals (e.g. keys, paper clips, coins, chains etc).
- Do not drop or subject the batteries to strong physical shocks.
- Do not try to disassemble any of the battery packs.
- Use only the recommended battery chargers (see pages 2 and 76)
- If the battery terminals become soiled, clean them with a soft cloth.
- It is normal for batteries to become warm during charging.
- Old batteries must be returned to the place of purchase or to a place where used batteries are properly disposed of. Do not dispose of old batteries together with household waste.

Battery disposal

Please dispose of your old batteries in accordance with your national legistlation on the protection of the environment.
If in doubt please consult with your local authorities environmental department who will be able to offer you advice on disposal.

Basic operations

Turning on the phone, the standby display and turning off the phone

Turning on the phone

1. Press and hold down ⏻. A switch on tone will be heard.
2. If the mobile is locked, **Code:** will be displayed. Enter the 4 digit phonelock code and press **OK**.
3. If your SIM is PIN protected, **Enter PIN:** will be displayed. Enter the PIN code and press **OK**.

☑ See pages 13 and 14 for more details on your PIN and lock codes.

A display animation will be shown. This is followed by a registration tone after which the name of the network and/or service provider will be displayed together with the time and date, signal and battery level indicators and the **Internet** and **SMS** softkey functions.

See page 64 for setting the time and date.

This is the normal standby display:

GPRS will also appear in the standby display if your phone is connected to a GPRS network.

In this condition the phone is ready to receive or make calls or perform many of the operations contained in its feature list.

From the standby display pressing ◁ will give direct access to numbers stored in your phonebook (see page 35). Pressing ▷ will enter the phone menu. Pressing △ gives access to the volumes control (see page 58) and pressing ▽ allows you to silence the incoming ring tone. Pressing any of the number keys (1 - 9 and 0) will enter that number in the display (see also "Speed dialling", page 41). Pressing ✆ will dial a displayed number whilst pressing ⏻ will stop the dialling or end a call.

Modem mode of operation

If the **Mode of operation** value was set to **Modem** (see page 51) and if the phone attaches to a GPRS network, the standby display will be the following (instead of the one shown above):

Keypad lock

When activated (turned on) keypad lock prevents accidental calls or actions being made by user when the phone is carried in a pocket, briefcase or handbag. When on keypad lock does not prevent calls being received, which are answered in the normal way. On completion of a received call keypad lock is automatically reactivated.

To turn keypad lock on:

Press and hold down #.

will be displayed.

To turn keypad lock off:

Press **Unlock** plus #.

☑ If the right softkey has been programmed with another function (see page 60), holding the # key will lock/unlock the keypad.
See page 56 for more keypad lock details.

Internet

Pressing **Internet** in the standby display allows you access to the internet main menu from which you can dial the home page offered by your network operator. Please refer to page 68 to learn more about this feature.

Messages (SMS)

Pressing **SMS** in the standby display allows you to access to the short messages menu with the same functions as when accessing it from the main menu. Please refer to page 41 to learn about the available functions in this menu.

Backlight operation

The backlight is normally off. When a key is pressed the display and keypad backlight will come on for 10 seconds. If an incoming call is received the backlight will come on and remain on for 10 seconds after the call has been answered.

☑ See pages 59 for backlight adjustment.

Turning off the phone

Press and hold down .

A switch off tone will sound to confirm your action. During switch off a display animation will be shown. The mobile will then turn off.

☑ Do not turn off the phone by removing the battery as data which may need to be saved in the SIM will be lost.

Making and receiving calls

The phone can only make and receive calls when it is switched on, unlocked, has a valid SIM card inserted and is located in an area that has GSM network service coverage. If the phone cannot find a network the display remains blank. For best results use the antenna fully extended when making or receiving calls.

Making calls

❶ Enter the desired telephone number using the numeric keys (1 - 9 and 0).

International calls can be prefixed either with 00 or +. To enter the + symbol before a number press and hold down ✱.
A maximum of 46 digits can be entered. Correct any mistakes by pressing **Clear**. Holding down this key will clear the whole display.

❷ Press to dial (send) the number.

The dialled number together with the animated icon will be shown in the display. When the call is connected a ringing tone will be heard in the earpiece and a call timer will be displayed. When answered proceed with the call in the normal way.

- **Busy** in the display indicates that the called party is engaged. If Auto Retry is on, the phone will attempt to call again (see page 61 for details).
- **Not allowed (fixed dialling)** in the display means that the number dialled is not authorised by the FDN list (see page 40 for details).
- If the dialled number matches one stored in the phonebook then the associated name of the called person will appear in the display.
- The line 2 icon ( ) will appear once the call is established (if this service is active) indicating that the call was made using this line (see page 48 for details).

Ending calls

Press .

The call timer will stop and will disappear. Waiting a few seconds or pressing **Exit** will return to the standby display.

NB: closing the flip does not end a call.

Receiving calls

When a call is received the phone will ring. The LED on the top of the phone will flash green, the backlight will come on and the flashing will be shown. If the ring tone volume is set to zero (off) or 'Vibrate', no audible sound will be heard (see pages 58 on how to set the incoming ring tone).

To accept (answer) the call,

Press .

Pressing the **No ring** softkey will stop the sound of the ring tone allowing you to silence the phone and go out of a room before pressing .

NB: opening the flip does not answer a call.

To reject or return the busy signal to the caller,

Press .

If accepted will be displayed. Proceed with the call in the normal way.

- If the callers number is not available **Unknown number** will be displayed during call presentation; then **Call1** will be displayed during call connection.
- If the callers number is available but does not match one stored in your phonebook it will appear in the display. If it does match a stored number then the associated name will appear instead.
- If the caller has withheld their number **Withheld number** will be displayed during call presentation; then **Call 1** will be displayed during connection.
- A call timer will also appear.
- will appear if the call has been received on your line 2 number (see page 26 for details).

To end the call,

Press .

The caller's number, if available will be stored in the received calls log (see page 44 for details).

NB: closing the flip does not end a call.

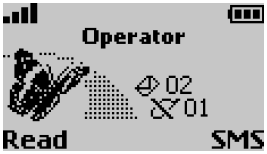
Unanswered call, voice mail and new SMS message indicators

- If some received calls remain unanswered, will be displayed. Press **Read** to view the callers' numbers if available and the date and time the

call was received. Press to call the number. Unanswered call numbers will be stored in the unanswered calls log (see page 44 for details).

- When you receive notification that a voice message has been deposited in your voice mail box an alert tone will sound and will appear in the display. Press **Read** to view the message or press 1 to speed dial your voice mail message centre (see pages 7 and 34 for details).
  NB: If more than one indicator is shown, pressing **Read** will display a menu allowing you to choose between different items.
- When a new SMS message is received an alert tone will sound and will be displayed. Press **Read** to view the SMS inbox messages.
  If is flashing you will have to delete at least one old received message to be able to receive new ones (see page 41 for details).

The display will show the quantity and type of messages:



Press **Read** to select the type of message to be read. Press **Select** or to view the message.

When one indicator is displayed the date is temporarily cleared. When two or three indicators are displayed the time and date are temporarily cleared.

General operations

Dialling from memory

Any number stored in the SIM, or the phone memory, which can be recalled to the display can be dialled

...from the phonebook

1. Press ◁ to enter the phonebook list.
2. Use △ or ▽ to scroll to the number required.
3. Press ✆ to dial the number.

☑ See "Phonebook", page 35.

...from the last dialled numbers list

The last 10 numbers dialled are stored in the phone.

1. Press ✆ to display the last numbers dialled.
2. Use △ or ▽ to scroll to the number required.
3. Press ✆ to dial the number.

...from the calls log memory list

The last 10 numbers dialled, the last 5 unanswered call numbers (if available) and the last 5 received answered numbers (if available) are stored by the phone in the calls log memory location menu.

1. Press ▷. Select **Calls & Times**.
2. Select **Calls log**.
3. Select **Last dial**, **Unanswered** or **Received**.
4. Use △ or ▽ to scroll to the number required.
5. Press ✆ to dial the number.

☑ See "Calls & Times", page 44.

Last dialled numbers

Quick access to the last 10 dialled numbers can also be obtained by pressing ✆.

1. In the standby mode pressing ✆ will display a list of the last dialled numbers.
2. Use △ or ▽ to scroll to the number required.
3. Press ✆ to dial the number.

☑ Last dialled numbers are stored in the phone, not in the SIM.

Speed dialling

Any number stored in the SIM can be allocated to the speed dialling keys of ① - ⑨.

Press and hold down the key (① - ⑨). The number will be recalled to the display and be dialled in the normal way.

By default, ① is always allocated to the voice mail number. See page 41 on how to allocate numbers to the speed dialling keys.

Silent alert mode

To avoid disturbing others you can silence the incoming ring and alert tones.

Turning on

1. Press ⌄.
2. Select **Vibrate** or **Vibrate then Ring**.

is shown in the display when this feature is turned on.

Turning off

1. Press ⌄.
2. Select **Ring**.

☑ If the ring tone volume is set to 0 a warning message will appear in the display. See also "Alert mode", page 57.

Muting

When engaged on a call the microphone can be muted (turned off) to allow you to confer privately with people nearby without being heard by the other party.

Turning the microphone off

During conversation,

Press **Mute**.

Turning the microphone on

Press **Unmute**.

☑ The microphone is automatically restored on receiving a new call.

Volume adjustment

To adjust the received audio level during conversation,

1. Use ⌃ or ⌄ to decrease or increase the volume through eight levels as shown on the display.
2. Press **Exit** ⌐ or wait 2 seconds to return back to the previous display.

☑ See also "Volume adjustments", page 58.

Sending DTMF tones

DTMF tones are used to access answer phones, voice mail boxes and computorised home banking, etc. These tones are a method to communicate passwords and callback numbers.

Manually

To send individual DTMF tones directly from the keypad during conversation,

Press the required keys.

The tones will be heard in the earpiece and sent immediately.

Automatically

To send a consecutive string of DTMF tones during conversation,

1. Press **Options** ⌐.
2. Select **Auto DTMF**.
3. Enter the DTMF numbers into the display either directly using the keypad or from a number stored in the phonebook (under **Names** ⌐).
4. Press **OK** ⌐. After the tones have been sent the normal conversation display will be shown.

☑ DTMF tones cannot be sent when a call is on hold.

Pause feature

Telephone numbers and a sequence of DTMF tones can be entered in the display or stored in memory together provided they are separated by a 'pause'. A pause is entered between numbers by pressing and holding down ⊛. The letter **p** will appear in the display. Any number of pauses can be stored together with a maximum of 20-46 characters (dependent upon the SIM and the phones memory capacity).

In-call options

Holding and retrieving a call

To put a call on hold during conversation,

Press .

To retrieve a call,

Press .

To make a second call when one call is on hold,

1. Enter a number in the display. Press to dial the number.
2. After the second call has been established press to swap between the two calls.
3. To end either the current call or the held call select **End active** or **End held call** in the **Options** menu. The remaining call is automatically retrieved.
4. Press to end the remaining call.

☑ Both calls can be ended at the same time by pressing .

The alternative way to hold, retrieve and make a second call during conversation is to use the **Options** feature to display a menu of the actions described above. Scroll to the required option and press **Select** or (see also "Multi-party or conference calls", page 28).

Call waiting, swapping and multi-party conference calls

Call waiting

Call waiting is a network feature that allows you to receive a second incoming call when already engaged on a call. This means that you can put an existing call 'on hold' whilst you answer or make a second call. To turn on or off the call waiting service,

1. Press . Select **GSM Services**.
2. Select **Call Waiting**.
3. Select **Activate** or **Cancel**. After some time (your request is sent to the network) the display will confirm your request.
4. Press **Exit** or to return to the standby display.

Action when receiving a second call

When a second incoming call is received you will hear a 'double beep'; an animated phone icon will be displayed as well as the phone number if available. Either press to answer the call and put the first call on hold or press **Reject** to reject the call and return a busy

signal to the caller. Press to swap between the two connected calls.

Making voice calls during GPRS data calls

You have to release the data connection before making a call.

Standard mode

- WAP™ call

You have to close the WAP™ connection and leave the WAP™ session (see page 72) before making the new call.

- GPRS call

The new voice call is aborted immediately.

As an exception, making an emergency call closes the DATA connection before making the call. The data connection may be retrieved later from the PC.

Modem mode

Voice calls (except emergency calls) are forbidden is this mode of operations. A failed screen will be displayed when making standard voice calls.

Receiving voice calls during GPRS data calls

Standard mode

In this mode (see page 51), the incoming call is presented to you and the GPRS data call may be interrupted or released.

If you answer the call, then the call is displayed as normal. It is up to you to restart or not the GPRS connection after the voice call.

After the call, for WAP™ connections, you retrieve the WAP™ context, offline. The first access that needs a network access will make the connection again, using the connection parameters used before.

A PC connection has to be restarted from the PC.

Modem mode

In this mode (see page 51), voice calls cannot be received, the mobile being detached from the GSM services.

Multi-party or conference calls

This feature gives you the ability to make or receive between 2 to 5 calls at the same time with all parties being able to hear and talk with each other.

1. Make and establish a call in the normal way and press .
2. Enter another number into the display and press . The first call will be put on hold whilst the second call becomes active.
3. Press **Options** for the following menu:

Option	Description
Auto DTMF	Allows a DTMF string to be entered to the active call only
Swap	Swaps between active and call on hold
Join	Joins active and call on hold to make a multi-party or conference call
Mute/Unmute	Turns on or off the microphone
End held	Ends the call on hold
End active	Ends the active call and connects with the call on hold
End all	Ends all the calls
*** Private with**	Allows you to select and have a private conversation with one of the conference callers whilst putting all the other calls on hold
Hold/Retrieve	Holds or retrieves the conference call
*** End one**	Allows you to select and end one of the conference call participants

* These items in the Options menu will appear if more than 2 calls are joined in the conference call.
Throughout the conference call the display will confirm and show the actions you have selected from the options menu.

☑ For alternate line service (ALS) subscribers conference calls cannot be made between Line 1 and Line 2. For further information see "Phone settings - customising your phone", pages 56-64.

The menu (MMI) system

The phone contains many functions and features that can been seen and entered through the easy to use menu system via the round cursor key. Through your SIM card the phone is also able to detect and display, in the menu, features that have been requested from your service provider as well as suppress ones that have not been subscribed too.

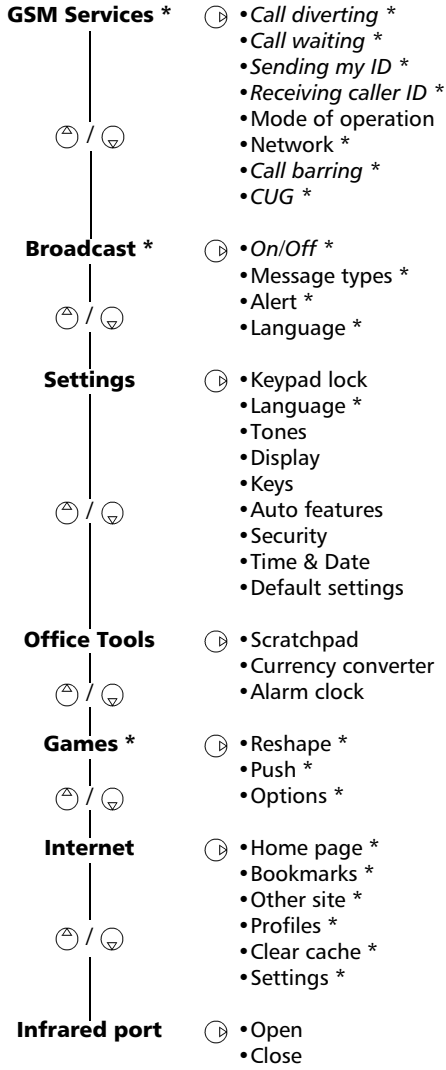
Access to the menus

From the standby display and for convenience all stored telephone numbers in the phonebook can be viewed immediately by pressing ◁. To enter the main menu from the standby display press ▷.
All other functions and features are then selected by a press on ▷ or **Select**.
To return to a previous menu press ◁ or (short press) **Exit**.
To exit from the menus press and hold **Clear** or ↩, if no call is in progress.

Menu map

List of the names in the SIM and the phone ◁ ▷

- **Network Serv. *** ▷
  - •Applications *
  - •Services *
  - •Information *
  - △ / ▽
- **Voice Mail *** ▷
  - •*Call* *
  - •Number *
  - •Alert *
  - △ / ▽
- **Phone Book** ▷
  - •Recall
  - •Store
  - •Remaining
  - •Own numbers
  - •Fixed dialling *
  - △ / ▽
- **Messages** ▷
  - •Inbox *
  - •Outbox *
  - •Write new
  - •Settings *
  - •Alert *
  - △ / ▽
- **Calls & Times** ▷
  - •Calls log
  - •Call timers
  - •Call costs *
  - •Line selection *



* The availability and appearance of these features in the menu are dependent upon your subscription and the services provided by your network operator
The features in italics do not appear in Modem mode

Entering text

Some features and functions, e.g. storage of names into memory or sending SMS text messages, require you to know how to enter and edit text in the display.

In the display this will be indicated by *a* in lower case mode and by *A* in upper case mode. Text and alphabet characters can then be entered or edited directly from the keypad.

There are two methods of entering text characters and numbers in the display. The Multitap or Multipress key method or the quicker intuitive method, called T9 text input, which involves less key presses than the multitap method.

T9 text entry

This is the default method for "free text".

A press on ⌄ will swap between T9 text entry and the Multitap method.

Operation when in T9 mode text entry:

1. Press the key with the required letter only once. Do not be put off if the character you want is not immediately displayed.
2. The "active" word changes as you type, so type to the end of the word.
3. If your word is not displayed, press 0 for other matching words.
4. If your word is not recognised, press ⌄ to swap to the multitap method to complete the word.
5. Use ◁ or ▷ to locate the cursor in the text to insert characters or make corrections.

Tips and Operation

Key	Action
*	Shift - upper/lower case
Clear	Clear or backspace
Long press	Numbers
#	Space
0	Another matching word
1	Smart punctuation
⌄	Swap between T9 and Multitap method

Example

To enter **card** in the display,

- Press ▷ and select **Messages**.
- Select **Write New**.
- Press 2. **a** will appear in the display.
- Press 2. **ca** will be displayed.
- Press 7. **car** will be displayed.

- Press ③. **case** will be displayed.
  If the displayed word is not the one you want, press ⓪ as many times as necessary to view **card**.
- Press ⌐ to exit from this example and return to the standby display.

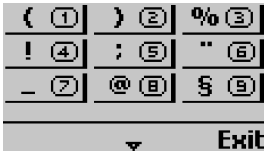
The Multitap/Multipress method

A press on ▽ will swap between T9 text entry and the Multitap method.
A brief press on any key will display the first character associated with that key as well as show all the other available characters at the top of the display.
The characters available, which are language dependent, are shown below:

Key	Character	
	Lower case	Upper case
①	1 . , - ' @ : ?	
②	a b c 2	A B C 2
③	d e f 3	D E F 3
④	g h i 4	G H I 4
⑤	j k l 5	J K L 5
⑥	m n o 6	M N O 6
⑦	p q r s 7	P Q R S 7
⑧	t u v 8	T U V 8
⑨	w x y z 9	W X Y Z 9
⓪	0	0
✱	Short press changes next letter from upper to lower case or vice versa. Long press changes all next letters to upper or lower case or vice versa.	
#	Short press, enters space. Long press gives access to special characters. ( ) % ! ; " _ @ § + # * / & = < > ¥ $ £ i ¿	
◁ ▷	Short press moves the cursor through the text one place to the left or to the right.	
▽	Swap between Multitap/Multipress method and T9 text input	

A brief press on any key will display the first character associated with that key as well as show all the other available characters at the top of the display.
To enter text, press the key with the required character repeatedly until it appears in the display.
A long press will enter the figure corresponding to the key.

If two characters are on the same key wait for the display at top of screen to clear or press ⊳ before pressing the same key again.
Correct mistakes by a short press on **Clear** ⌫. A long press on this key will delete all the text.
Use ◁ or ⊳ to locate the cursor in the text to insert characters or make corrections.
A long press on # gives access to 22 special characters spread over 3 pages. Display and selection of the characters is as follows:



To select and insert a character into the text:

❶ The characters are arranged as the 1 - 9 characters of the keypad.
In this example pressing 2 would select **)** and insert it directly into the text.

❷ Use △ or ▽ to scroll to the next page.

Example
To enter **Card** in the display,

- Press ⊳ and select **Messages**.
- Select **Write New**.
- Press ▽: t9 will disappear.
- Press and hold * until A is displayed. Press 2 briefly three times, **C** will appear in the display.
- Wait for the available characters to go from the display, press and hold * until a is displayed. Press 2 briefly once, **a** will appear.
- Press 7 briefly three times, **r** will appear.
- Press 3 briefly once, **d** will appear. The word **Card** will now be in the display.
- Press ⌐ to exit from this example and return to the standby display.

Network services

Your network operator may provide value added services and contact phone numbers. These services and phone numbers will be stored in your SIM and if available will modify the menu of the phone to be included under the item **Network Serv.** at the beginning of the menu (contact your service provider for details).
There will be three possible ways in which an operator may present these value added services and contact phone numbers:

SIM application tool kit

An automatic way to provide services related to your network and not to your phone. These services will be SIM dependent.

SDN numbers stored in the SIM

Up to 32 numbers may be stored in the SIM which cannot be changed by the user.

Information numbers

A list or a menu to enable you to call network or information services offered by your network.

Some operators will be able to provide two of the above services on the same SIM in which case the **Network Serv.** item in the main menu will provide two menu items, **Applications** and **Services** or **Information**.

Voice mail

Your network provider may offer a voice mail service which operates like an answering machine. Contact your service provider for details.

Storing a voice mail centre number

If your SIM does not automatically include the voice mail centre number it will have to be manually stored:

1. Press ⊙. Select **Voice Mail**.
2. Select **Number**. When prompted enter the number manually or from a stored memory.
3. Press **OK** to validate your entry.
4. Press **Exit** or to return to the standby display.

☑ If you subscribe to the 'Line 2' service the voice mail centre number will need to be stored separately for that line.

The voice mail number is automatically assigned to speed dial location number 1 (see "Speed dialling" on page 41).

Turning on/off the voice mail alert tone

If you wish a tone to sound alerting you of the receipt of a voice mail message,

1. Press ⊙. Select **Voice Mail**.
2. Select **Alert**. Select **On** or **Off**.
3. Press **Exit** or to return to the standby display.

Calling the voice mail centre to check for messages

There are two ways:

- To dial the voice mail centre directly after the receipt of a message,

  Press and hold down 1.

• Alternatively,

❶ Press ⓒ. Select **Voice Mail**.
❷ Select **Call**.

Dialling will proceed as for a normal call.

☑ If a voice mail number has not been stored when Call is selected you will be asked to enter the voice mail number. Proceed as described in "Storing a voice mail centre number", page 34. The voice mail cannot be called when you are in Modem mode (see page 51).

Phonebook

The phone and the SIM have areas of memory used for storing data (names, telephone numbers...) known as the phonebook.
The phone has the capacity to store up to 255 vCards (called "phone phonebook cards"). These cards may contain the following information: family name, first name, street, locality, postal code, country, state, P.O. box, phone numbers (home, work, cellular and fax) and e-mail address.
The phone also supports SIM cards with up to 255 memories (called "SIM phonebook cards") but the actual number and capacity is dependent upon the SIM itself. These cards contain the following information: name and number.
The SIM phonebook cannot store vCards.
The phone and SIM memory locations are interconnected.
Both the SIM and the phone memories are searched when the recall function is used.

Storing names and telephone numbers

Names and numbers can be stored directly in the phonebook or copied from other stored areas such as from SMS messages, scratchpad or last dialled number list, etc.
It is advisable to store numbers in international format using the '+' prefix before the country code followed by the telephone number. This will ensure that the number can be dialled from within your home country as well as abroad.
Text entry is as described on page 31.
There are several ways to store numbers into the various phonebooks:

Phone phonebook

• Directly from the standby display,

❶ Enter the number. Press **Store** ▱.
❷ Select **Phone names**.
❸ A list will be displayed.
You have to select the item corresponding to the number you entered: home, work, cellular or fax number.
❹ The following fields will be displayed:

Field	Purpose
Family name	Family name of the card owner
First name	First name of the card owner
Phone number (Home)	The home phone number of the owner
Phone number (Work)	The work phone number of the owner
Phone number (Cellular)	The cellular phone number of the owner
Phone number (Fax)	The fax phone number of the owner
E-mail	The e: mail address of the owner

❺ Enter the requested data. Confirm each entry by pressing **OK**.

❻ You will then be asked if you want to enter the address. Should you select **Yes** the following fields will be displayed:

Field	Purpose
Nr, Street	Street
Postal code	Postal code
Locality	Locality name
P-O Box	Post office box
State	State (or province)
Country	Country

❼ Enter the requested data. Confirm each entry by pressing **OK**.

❽ Confirmation of your entry and the remaining locations will be briefly displayed.

❾ Press **Exit** or to return to the standby display.

• Using the menu,

❶ Press . Select **Phone Book**.

❷ Select **Store**. Select **Phone names**.

❸ The following fields will be displayed:

Field	Purpose
Family name	Family name of the card owner
First name	First name of the card owner
Phone number (Home)	The home phone number of the owner
Phone number (Work)	The work phone number of the owner
Phone number (Cellular)	The cellular phone number of the owner
Phone number (Fax)	The fax phone number of the owner
E-mail	The e-mail address of the owner

❹ Enter the requested data. Confirm each entry by pressing **OK**.

❺ You will then be asked if you want to enter the address. Should you select **Yes** the following fields will be displayed:

Field	Purpose
Nr, Street	Street
Postal code	Postal code
Locality	Locality name
P-O Box	Post office box
State	State (or province)
Country	Country

❻ Enter the requested data. Confirm each entry by pressing **OK**.

❼ Confirmation of your entry and the remaining locations will be briefly displayed.

❽ Press **Exit** or to return to the standby display.

• From other stored locations,

Numbers stored in the last dialled, received, unanswered, scratchpad and SMS message locations can all be stored into the phonebook:

❶ Display a number from one of the above, press **Options**.

❷ Follow the display instructions as for point 2 in the previous item.

☑ During number and name entry a short press on Clear will clear the last character. A long press will clear the whole display.

SIM phonebook

• Directly from the standby display,

❶ Enter the number. Press **Store**.

❷ Select **SIM names**.

❸ Confirm the number by pressing **OK**.

❹ Enter the name (if required) and press **OK**. Confirmation of your entry and the remaining locations will be briefly displayed.

❺ Press **Exit** or to return to the standby display.

• Using the menu,

❶ Press . Select **Phone Book**.

❷ Select **Store**. Select **SIM names**.

❸ Enter the number and press **OK**. Enter the name and

press **OK**. Confirmation of your entry and the remaining locations will be briefly displayed.

4. Press **Exit** or to return to the standby display.

• From other stored locations,

Numbers stored in the last dialled, received, unanswered, scratchpad and SMS message locations can all be stored into the phonebook:

1. Display a number from one of the above, press **Options**.
2. Follow the display instructions as for point 2 in the previous item.

☑ During number and name entry a short press on Clear will clear the last character. A long press will clear the whole display.

The characters *, +, P (pause), # and _ can be stored together with numbers. If the SIM or phone's memory is full a warning message will be displayed when selecting the phonebook.

Free space in the phonebooks

To see how many empty phonebook spaces remain in the SIM or the phone,

1. Press . Select **Phone Book**.
2. Select **Remaining** and use or to display the remaining memories in the phone or SIM.
3. Press **Exit** or to return to the standby display.

☑ If available the free memories in the FDN list will also be shown.

Viewing and calling numbers in the phonebook

Phonebook entries can be recalled into the display to be edited, deleted, copied, moved or called to or from either the phone or SIM. There are two ways to view and call numbers in the phonebook:

• Directly from the standby display,

1. Press to display the phonebook list.
2. Use or to scroll to the number required.
3. Press to dial the number.

• Using the menu,

1. Press and select **Phone Book**.
2. Select **Recall**.
3. Either press **OK** or enter up to the first 3 initials of the name required and then press **OK**.

If no initial was entered the display will show the first alphabet entry in the phonebook. The list of phonebook entries will be

displayed in alphabetical order together with the telephone number and whether stored in the SIM or the phone memory.

❹ Press ✆ to dial the number.

Pressing ⌃ or ⌄ will scroll through the phonebook. To go directly to another entry press the corresponding alphabet key. For example to go directly to entries starting with 'N' press 6 twice.
Pressing **Options** will display the following menu choices:

Item	Function
Edit	Edits the name and number entry
Delete	Deletes the entry
Copy	Copies the entry to the SIM or the phone or vice versa. Editing allowed before copying
Move	Moves the entry to another position. Editing allowed before moving
Send by IrDA	Sends the card information to another mobile (see page 74)
E-mail to...	Sends an e-mail to the phone book card owner (displayed only if the card has a valid e-mail address defined). See below for further details
Call	Calls the number displayed

❺ Press **Exit** or ↩ to return to the normal display.

Sending an e-mail

You can send e-mail messages to the owner of a vCard (provided the e-mail address was entered):

❶ Display the card as explained in section "Viewing and calling numbers in the phonebook", page 38.
❷ Press **Options**. Select **E-mail to...**.
❸ The e-mail address is displayed. Press **OK** to confirm the address.
❹ Enter the e-mail message subject. Press **OK**.
❺ Enter the e-mail message text. Press **OK**.
❻ Select **Send**. The transfer will then be performed.
❼ When the transfer is complete the phone returns to the phonebook card display.
❽ Press **Exit** or ↩ to return to the standby display.

Own number display

The phone can display your main 'Line 1' voice mobile number, the voice mobile number for Line 2 (Alternate Line Service) and your data and fax numbers. These numbers, if available, are stored in the SIM. If

not then they can be entered manually. Numbers can be given names. Line 1 for example can be named 'Office' etc.
To view, name and edit your own number(s),

1. Press ▷. Select **Phone Book**.
2. Select **Own Numbers**. The mobile number for Line 1 will be displayed.
3. Use △ or ▽ to view line 2, data and fax numbers.
4. To add or edit a name or number press **Edit**.
5. Press **Exit** or ↩ to return to the standby display.

Fixed dialling numbers (FDN)

Fixed dialling is a feature that restricts outgoing calls to 'fixed' numbers or 'prefixes' contained in SIMs that support this feature. When turned on, dialling numbers not in the FDN list will not be allowed. The maximum number of FDN numbers that can be stored is dependent upon the capacity of the SIM. Call diverting and sending SMS messages to numbers not in the FDN list will be prevented. Turning on or entering numbers into the FDN list is PIN 2 protected.
To turn on or off FDN operation,

1. Press ▷. Select **Phone Book**.
2. Select **Fixed Dialling**. Select **Status**.
3. Select **On** or **Off**. Enter the PIN2 number.
4. Press **OK** to validate and confirm the setting.

To view the numbers in the list**,**

1. Press ▷. Select **Phone Book**.
2. Select **Fixed Dialling**.
3. Select **View** and use △ or ▽ to view all the entries. Pressing **Options** will allow you to edit, delete and copy numbers to the phone or SIM.

To enter, edit or delete numbers in the FDN list**,**

1. Press ▷. Select **Phone Book**.
2. Select **Fixed Dialling**.
3. Select **Add new**. You will be prompted to enter the PIN2 number if it has not been entered yet. It is now possible to add new numbers as well as edit, delete and copy numbers to the phone or SIM.

☑ Wild card spaces can be used with the numbers stored in the FDN list. For example the number +441707 278__9 will allow calls to all numbers between 278009 to 278999 to be dialled. The number can be edited and dialled in the standby display.

Speed dialling

Phonebook numbers can be assigned to keys ② - ⑨ which when held down will dial those numbers. ① is reserved exclusively for the voice mail number and is assigned automatically when the voice mail number is stored (see "Voice mail", page 34). Numbers stored in the SIM and in the phone (fixed dialling numbers excepted) can be selected.

To assign phonebook numbers to the speed dialling keys,

1. Press ◯. Select **Settings**.
2. Select **Keys**.
3. Select **Speed Dial**.
4. Use ◯ or ◯ to scroll to the next key.
5. Select **Names** ▭ to choose the phonebook entry and press ◯ to validate your choice.
6. Press **Exit** ▭ or ◯ to return to the standby display.

☑ If a number which has been assigned to a speed dial key is deleted from the phonebook the corresponding number is automatically deleted from the speed dial key.

Messages (SMS)

The SMS message service enables you to send or receive short text messages of up to 160 characters to or from other mobile phones provided with the same capability. The messages are not sent directly to the other mobile phone but go via a message centre provided by your network operator. You can also store, edit and forward messages as well as saving any of the numbers they may contain.

Reading a received SMS message

When the phone receives an SMS message a new SMS alert tone will sound and ✉ will be displayed. The message is automatically stored in the SIM. If ✉ is flashing there is no more space in the SIM to store messages. Delete previous messages to make space for new ones.

Press **Read** ▭ to read all received messages (Inbox).

Reading stored SMS messages

1. Press ◯. Select **Messages**.
2. Select **In Box** to display the first message header.
3. Press ◯ or select **Options** ▭/**Read text** to read the message text.

It is now possible to read all stored messages. Use the arrow keys to scroll between pages or between messages. Unread messages are indicated by ✉, previously read messages are shown by ✉.

Managing received and stored SMS messages

After reading the SMS message press **Options** for the following menu:

Item	Function
Read text	Displays the remainder of the text
Delete	Deletes the message
Reply	Reply to the sender of the message
Forward	Forwards the message to another user
Numbers	Stores or calls the number(s) contained in the SMS header or text

☑ The items of this menu may vary and are dependent upon the type of message received.

Turning on or off the message alert tone

Each time a message is received a new SMS alert tone will sound. To turn on or off this tone,

1. Press ◯. Select **Messages**.
2. Select **Alert**. Select **On** or **Off**.
3. Press **Exit** or ◠ to return to the standby display.

Preparing the phone to send SMS messages

You can write and send text messages. Before doing so the networks message centre number (obtainable from your service provider) needs to be stored:

1. Press ◯. Select **Messages**.
2. Select **Settings**.
3. Select **Message centre**.

   If a number already appears it means that it was taken directly from the information stored in your SIM. If empty enter the number manually (in international format) or from a stored memory.

4. Press **Exit** or ◠ to return to the standby display.

If required you can also choose the validity period, format, paid reply request and request a Delivery report. Default settings are assumed if not set.

Option	Description	Default
Validity Period	Time held at message center. 12 hrs, 1 day, 2 days or Maximum (defined by operator)	Maximum
Format	Selects format of message, text, voice, fax or pager	Text
Paid Reply to	Reply requested	Off
Status report to	Delivery report	Off

Sending a new SMS message

1. Press ◯. Select **Messages**.
2. Select **Write new**.
3. Enter the message text and press **OK**.
4. Select **Send** or **Store**.
5. If you selected **Send** choose a message template and then enter the destination number or select **Names** to choose a number from a phonebook entry and press ◯ to validate your choice. Press **OK**. Sent confirmation will be given.
6. Select whether to store or send another message.
7. Press **Exit** or to return to the standby display.

Messages in the outbox

The outbox contains unsent draft messages, stored sent messages as well as sent but undelivered messages, identified by their headers. These messages can be selected from the outbox menu and can be modified and resent as new SMS messages in the normal way.
To select an outbox message,

1. Press ◯. Select **Messages.**
2. Select **Outbox** and use ◯ or ◯ to scroll to the desired message. Messages will either be "transmitted" ( ) or "to be sent" ( ).
3. Press **Options** to read, delete, request a status report, send (or re-send) and edit a sent message.
4. Follow the instructions displayed on the screen.

Status request on outbox messages

If the status is requested on a delivered message the date and time of delivery may be shown. If the status is requested on a sent message a status request will be sent to the network (must be network supported). The network will answer by sending a status report (SR) back to the phone which can be acknowledged by pressing **OK**.
To action a status request on outbox messages,

1. Press **Options**. The following menu will be displayed:

Item	Action
Delete Msg.	Deletes the corresponding sent SMS message and the status report
Clear	To acknowledge the status report and clear the display
Associated msg	Displays the corresponding sent SMS message

❷ Select the action required and press **OK**.

Re-usable message templates

If your network operator provide SIMs that allow users to store pre-programmed message templates, then **Msg templates** will appear in the **Messages** - **Settings** menu. Templates are sets of pre-programmed settings to be used when sending messages. Each of these templates can be given a name for easy identification and can be selected and used whenever required.
To create a message template,

❶ Press . Select **Messages**. Select **Settings**.
❷ Select **Msg templates**. Choose any blank template (**[...]**).
❸ The display will prompt you to enter the template Name, Msg Centre number, Validity period and Format.

Default settings for pay reply and status are assumed 'off' unless set. If only one template is set it is automatically used by default. If more than one template is programmed any one can be selected for use when writing new messages.

Calls & Times

Details of the incoming and outgoing calls as well as the time duration of the last and accumulated total of all calls made are stored by the phone under the **Calls & Times** menu.

Calls log

This feature stores details (identity, time and date and call duration) of the last 10 numbers dialled, the last 5 received unanswered calls and the last 5 received calls.
The call logs are common for both Line 1 and Line 2.

❶ Press . Select **Calls & Times**.
❷ Select **Calls Log**.
❸ Select **Last dial**, **Unanswered** or **Received**.
❹ Use or to scroll through the call lists.

The last number dialled or received is displayed first. For unanswered and received calls if the calling parties number is known it will be shown otherwise **Unknown number** will be displayed.
Pressing on a highlighted number will call that number.

Pressing **Options** will give access to the following menu:

Item	Action
Store	Stores the number into phonebook
Delete	Deletes the entry
Delete all	Deletes all the entries
Edit	Edits the displayed number
Details	Views the details - name, number, time and date and call duration of the highlighted number
Call	Makes a call to the number

Use ⏶ or ⏷ to select the required option and follow the display prompts.
Press **Exit** or ↩ to return to the standby display.

☑ In the standby display 'One Touch' access for the 10 last dialled calls may be available by pressing ⏲.

Call times

The duration time of the last call, total accumulated time of all calls and total time for Line 1 and Line 2 are stored.
Times for calls made and received through the subscription network and through other (national and international) networks are displayed under the **Details** sub-menu.

1. Press ⏵. Select **Calls & Times**.
2. Select **Call timers**.
3. Select **Show**.
4. Use ⏶ or ⏷ to view all the timer information.

The call type and the accumulated times of outgoing and incoming calls will be displayed.

Pressing **Details** will display details of roaming and international calls etc.
Press ⏴ or **Exit** to return to the previous display.
Press and hold **Exit** or ↩ to return to the standby display.

☑ If Line 2 is subscribed too 'All Calls' for Line 1 and Line 2 will be displayed separately.

Balance information (subscription service only)

This is a subscription service provided by some networks and enables you to ask for your remaining airtime balance. This information is sent by the network.

Contact your service provider on availability and details.

1. Press ◯. Select **Calls & Times**.
2. Select **Call timers**.
3. Select **Balance information**.
4. Select **Call** or **Set number**.

   If **Call** is selected and the balance information number has already been entered a call will be made to the balance information centre. If a number has not been entered select **Set number** and enter the number. Press **OK** ▭ to store your number or ✆ to store and call the information centre number.

5. Press ⌒ when the call is completed.

Reminder - Call duration

A call duration reminder beeps to remind you of the duration of a call. It can be set in multiples of 1 minute (1 - 59 mins) intervals.

1. Press ◯. Select **Calls & Times**.
2. Select **Call timers**.
3. Select **Reminder**.
4. Select **On** (or **Off**).
5. Select the period (between 1 and 59 mins).
6. Press **OK** ▭ to validate the entry. Press **Exit** ▭ or ⌒ to return to the standby display.

Call timer - reset

This feature enables you to reset all the call timers. You will need the 4 digit lock code to operate this feature.

1. Press ◯. Select **Calls & Times**.
2. Select **Call timers**.
3. Select **Reset**.
4. Select **Yes** or **No**.
5. Enter the phone lock code and press **OK** ▭. The action will be confirmed.
6. Press **Exit** ▭ or ⌒ to return to the standby display.

Call costs - management (subscription service only)

Some networks offer an Advice of Charge (AoC) subscription service in which it is possible to see the cost of the last call made, the accumulated total cost of all calls and the remaining balance in units or

currency of any 'cost limit' set by the user.
To display these costs in the currency of your choice you must first select the currency and cost per unit otherwise call costs in units will be displayed.
To set currency and cost per unit,

1. Press ▷. Select **Calls & Times**.
2. Select **Call costs**.
3. Select **Display cost type**.
4. Select **Currency**. The present currency settings will be displayed.
5. Press **Edit**. Enter the PIN 2 code and press **OK**.
6. Enter the abbreviated letters of the currency. Press **OK** to validate.
7. Enter the cost per unit in the selected currency.
   Press **OK** to validate.
   The display will confirm your selection.
8. Press **Exit** or ↩ to return to the standby display.

To set call cost type to units,

1. Press ▷. Select **Calls & Times**.
2. Select **Call costs**.
3. Select **Display cost type**.
4. Select **Units**.
5. Press **Exit** or ↩ to return to the standby display.

☑ When the cost type is set to units the credit limit and the remaining credit are shown in units.

Setting the credit limit - in units or currency

After setting the currency and cost per unit, if required and available on your subscription, you are also able to set a credit limit in units or an amount in the currency of your choice. When the credit limit is reached the phone will be prevented from making and receiving all chargeable calls. This will not prevent the phone from making emergency calls.

1. Press ▷. Select **Calls & Times**.
2. Select **Call costs**.
3. Select **Credit Limit**. The display will show the present credit limit setting.
4. Press **Edit**. Enter the PIN 2 code and press **OK**.
5. Enter the credit limit (use # to enter a decimal point). Press **OK** to validate.
6. Press **Exit** or ↩ to return to the standby display.

☑ When a credit limit is entered the selection from the 'Credit Limit' display will be Edit or Set No Limit.

Show costs

1. Press ▷. Select **Calls & Times**.
2. Select **Call costs**.
3. Select **Show**.
4. Use △ or ▽ to display the cost of the **Last Call**, **All Calls** and the **Remaining credits**.
5. Press **Exit** or ↩ to return to the standby display.

☑ The remaining credit is shown in either units or currency as set by Cost Type menu above.

Call costs - resetting all costs to zero

To reset all the call costs to zero,

1. Press ▷. Select **Calls & Times.**
2. Select **Call costs**.
3. Select **Reset**.
4. Select **Yes** to reset the costs or **No** to exit.
   If **Yes** is selected, enter the PIN 2 number and press **OK**.
   All Costs Reset will briefly be displayed.
5. Press **Exit** or ↩ to return to the standby display.

Alternate line service - selecting line 2 (subscription service)

Some GSM 1800 operators support the use of a second line which can be made available to existing users. This is normally a subscription service and allows, for example, the separation of incoming and outgoing calls for business or private use. The second line will have its own mobile number. To select the line for outgoing calls,

1. Press ▷. Select **Calls & Times**.
2. Select **Line selection**.
   The current line selection will be displayed.
3. Use △ or ▽ to scroll to the line required and press **Select** or ▷ to validate your choice.
4. Press **Exit** or ↩ to return to the standby display.

☑ Names can be given to Line 1 (Office) and Line 2 (Home) for example. Refer to the Own Number menu see page 39 for details. Whichever line is selected to make outgoing calls, incoming calls are still able to be received on either line.

GSM services

Diverting incoming calls (network service)

Call diverting is a service which diverts incoming calls, whether voice, fax or data, to another number.
To turn on a call divert,

1. Press ▷. Select **GSM Services**.
2. Select **Call diverting** for the following menu:

Divert options	Action
Always	Diverts all incoming voice calls unconditionally
When not reachable	Diverts all voice calls when the phone cannot be reached, i.e. out of service
On no reply	Diverts all voice calls when the phone does not answer
When busy	Diverts all voice calls when the phone is busy
All conditions	Diverts all voice calls when Not Reachable, No Reply and When Busy
Cancel all	Cancels all diverts
All FAX calls	Diverts unconditionally all incoming fax calls
All DATA calls	Diverts unconditionally all incoming data calls

3. Use ▲ or ▼ to select the divert condition and validate by pressing **Select** or ▷.
4. Select **Activate**.
5. Use ▲ or ▼ to choose between **Voice Mail**, **Names** or **Number**.
6. Press **Select** or ▷ to validate your selection.
   The display will confirm your request.
7. Press **Exit** or ↩ to return to the standby display.

☑ 1. If the 'On no reply' option is selected you will be requested to enter a delay period of 5, 15 or 30 seconds.
2. Call diverts for both Line 1 and Line 2 must be set for each line. During call divert programming, only the line currently selected is affected by the call divert selected. To carry out a call divert on the other line you must select this other line first (menu Calls & Times - Line).

To turn off or check the status of call divert,

1. Press ▷. Select **GSM Services**. Select **Call diverting**.
2. Select from the divert options and press ▷.
3. Select **Cancel** or **Status**.
   Your selection will be confirmed.
4. Press **Exit** or ↩ to return to the standby display.

To cancel all (multiple) diverts,

1. Press ▷. Select **GSM Services**. Select **Call diverting**.
2. Select **Cancel all**.
   Confirmation will be displayed.
3. Press **Exit** or ↩ to return to the standby display.

☑ This action cancels all voice diverts (for voice, faxes and data calls) for the line currently in use. To cancel call diverts for the other line you must select this other line first (menu Calls & Times - Line selection).

Caller Line Identity - showing/hiding your mobile number

Most networks allow the Caller Line Identity feature (CLI) i.e. the feature which shows the incoming number (ID) while receiving a call. Selecting **Receiving caller ID** will allow you to check the availability of such a feature.

Receiving caller ID

This feature enables you to find out whether a network presents the ID of incoming calls**.**

1. Press ◯. Select **GSM Services**.
2. Select **Receiving caller ID**.
   The network will return either **Presentation available** or **Presentation unavailable**.
3. Press **Exit** ⌐ or ⌐ to return to the standby display.

On networks which allow caller line identity you can disable the sending of your own number, on a call by call basis, by adding #31# before the number you are calling. Alternatively you can ask your service operator to always disable the sending of your mobile number. In this case if you wish to reveal your number, on a call by call basis, you can do so by adding *31# before the number you wish to call.

Standard network setting

To reset the standard network setting for sending your mobile ID,

1. Press ◯. Select **GSM Services**.
2. Select **Sending my ID**.
3. Select **My settings**.
4. Select **Preset**. The phone will reset to the network setting agreed with your service provider.
5. Press **Exit** ⌐ or ⌐ to return to the standby display.

Hiding or showing your number

1. Press ◯. Select **GSM Services**.
2. Select **Sending my ID**.
3. Select **My settings**.
4. Select **Hide my ID** or **Show my ID**.
5. Press **Exit** ⌐ or ⌐ to return to the standby display.

Finding out your current ID setting

1. Press ◯. Select **GSM Services**.
2. Select **Sending my ID**.
3. Select **Status**.
   The phone will display your current setting taking into account both network and phone settings.

❹ Press **Exit** or to return to the standby display.

Mode of operation

This setting allows mobile operations to be the following: **Standard** or **Modem**.

• Standard mode

In this mode the mobile has the behaviour of a class B mobile: it tries to attach to GSM and GPRS networks. If the mobile succeeds attaching a GPRS network, will appear in the standby display.
In this mode the mobile can send and receive voice calls and packet data calls.
To set the mode of operations to **Standard**,

❶ Press . Select **GSM Services**.
❷ Select **Mode of operation**.
❸ Select **Standard**.
❹ Press **Exit** or to return to the standby display.

• Modem mode

In this mode the mobile has the behaviour of a class C mobile: it tries to attach to GPRS networks only (and not to GSM networks).
It can only receive packets data calls and voice calls are barred. This behaviour is the same whatever are the network capabilities.
However if the GPRS services are lost, the mobile returns to the standard mode automatically after a non-GPRS service guard time.
To set the mode of operations to **Modem**,

❶ Press . Select **GSM Services**.
❷ Select **Mode of operation**.
❸ Select **Modem**.
❹ Press **Exit** or to return to the standby display.

Network

When the phone is turned on, it automatically searches for the last network it was registered on (usually the home network). If this is not available, the phone will automatically search and select a network from the preferred network list contained in the SIM.

Editing the preferred list

The phone contains a list of networks which can be selected and transferred to the preferred networks list stored in the SIM.
This list can be changed to suite your travel arrangements.
The order and name of the networks in the preferred networks list can be changed and edited.

❶ Press . Select **GSM Services**.
❷ Select **Network**.

3. Select **Preferred list**. A list of networks will be displayed.
4. Use ⌃ or ⌄ to view the list.
5. Press **Options** to change it. The following items are displayed:

Option	Description
Modify by list	Displays the general list of all known networks contained in the phone in alphabetical order
Modify by code	Edits or enters a network number (MCC MNC) if you know this information.
Delete	Deletes an entry

6. Press **Select** to confirm the selection.
7. Press **Exit** or to return to the standby display.

Your SIM may contain a forbidden list of networks which cannot be used. To view the forbidden list or show the home network,

1. Press ⌄. Select **GSM Services**.
2. Select **Network**.
3. Select either **Forbidden** or **Home network**.
   A list of the forbidden networks or the home network will be displayed.
4. Press **Exit** or to return to the standby display.

Selecting manual search

There may occasions when you wish to select a specific network, which has better coverage in your current location for example.

1. Press ⌄. Select **GSM Services**.
2. Select **Network**.
3. Select **Search**.
4. Select **Manual**. A confirmation screen and **Scanning for networks...** will be displayed.
5. Use ⌃ or ⌄ to select a network from the list shown.
6. Press ⌄ to confirm the selection.
   Requesting... followed by the name of the network will be shown after which the phone will return to the standby display.

☑ Choosing manual search immediately sets the mode of operations to Standard, even if it was set to Modem. You can set the Modem mode of operations again after the network manual selection. You cannot delete a network from the forbidden list. This list will be automatically updated when the manual network selection is performed.

Selecting automatic search (normal default setting)

To perform an automatic search from the preferred list proceed as follows:

1. Press ▷. Select **GSM Services**.
2. Select **Network**.
3. Select **Search**.
4. Select **Automatic**.
5. Press **Exit** or to return to the standby display.

Call barring (network service)

This is a network service which allows you to stop different types of calls being made and received on the phone.
It requires the use of a network barring password available only from your service provider.
To put on a call bar,

1. Press ▷. Select **GSM Services**.
2. Select **Call barring**.
3. Select **Outgoing calls** or **Incoming calls**.
   Choose from the following:

Select		Meaning
Outgoing	**- All outgoing**	All outgoing calls will be barred
	- Int'nal calls	All outgoing international calls only will be barred
	- Int'nal excl. home	All outgoing international calls except to other subscribers within the users home network
Incoming	**- All incoming**	All incoming calls will be barred
	- Roaming only	All incoming calls when not on the home network

4. Select the option using △ or ▽. Press **Select**.
5. Select **Activate**. Enter the password and press **OK**.
   The network will confirm the selection.
6. Press **Exit** or to return to the standby display.

To take off or check the status of a call bar,

1. Press ▷. Select **GSM Services**.
2. Select **Call barring**.
3. Use △ or ▽ to select the bar to be taken off (Cancel) or check the Status and press ▷.
   If choosing to take off a call bar the password will be required.

❹ Press **Exit** or to return to the standby display.

To change the password,

❶ Press . Select **GSM Services**.
❷ Select **Call barring**.
❸ Select **Change password**.
The old password will be requested followed by two requests to enter the new password. Confirmation will be displayed.
❹ Press **Exit** or to return to the standby display.

Closed user group, CUG (subscription service only)

This is a network service feature and allows the phone to make or receive calls only from selected groups of people. The groups, level of access and whether one of the groups has preferential calling access is set up at the time of subscription. This is not a single user feature and is mainly for businesses wishing to benefit from closed, internal communications.
Up to 10 groups may be set up. Unless authorised calls made or received to or from numbers outside the group are not permitted.
To turn on and off CUG and select type of CUG service,

❶ Press . Select **GSM Services**.
❷ Select **CUG**. The current CUG status will be displayed.
Pressing **Set** will display the following options:

Options	Meaning
No CUG	CUG is off. No groups active. Calls can be made outside the group
Partial CUG	Limited calls to and from users outside the group and from users within the group
CUG Only	Only able to make and receive calls from users within the group

❸ Use or to select the required option. Press .
Follow the display prompts.
❹ Press **Exit** or to return to the standby display.

☑ 'No CUG' is the setting for normal use.

Broadcast - cell broadcast (CB) messages

These are messages broadcast by the networks to all GSM users and may provide general information about local area dialling codes, weather reports and traffic news etc. Each type of message is numbered enabling you to select the type of information you want to receive. Up to 5 different types of messages

can be programmed into your selection list but only one can be displayed at any one time.
There are 16 standard message types pre-programmed into the phone to select from. New message types can be programmed into the selection list using the 3 digit cell broadcast type number. Contact your service provider for details on the number and types of messages broadcast.
Before you can turn on the broadcast service you have to put at least one message type into the selection list.

To enter a message type in the selection list

Up to 5 message types can be entered into the selection list.

1. Press ▷. Select **Broadcast**.
2. Select **Message types**. Press **Options**.
3. Select **Modify by list** (or **Modify by code** if type number is known).
4. Scroll to the message type required. Press **Select** to validate your selection.
   The display will confirm your choice.
5. Press **Options** again to select more message types from the list, enter a message type number if known or delete a message type.
6. Press **Exit** or ↩ to return to the standby display.

To turn on or off the broadcast service

1. Press ▷. Select **Broadcast**.
2. Select **On/Off**.
3. Select **On** or **Off**.
4. Press **Exit** or ↩ to return to the standby display.

Reading broadcast messages

Broadcast messages are shown in the standby display only and are suppressed during conversation or menu operation. A message can be up to 93 characters in length and cover several pages. Pages will automatically change approximately every five seconds or by a press on ▽.

Options during message display

A press on **Exit** will clear the CB currently displayed. Pressing ✆ will dial the number shown in the display within the message.

Pressing **Options** will display the following menu:

Option	Action
Delete	Delete the current message
Delete All	Deletes all messages stored in the queue
Numbers	Displays all phone numbers found in the message text and allows to dial or store them in the scratchpad if required
Broadcast Off	Turns off cell broadcast

To turn on or off the alert tone

If required an alert tone can be turned on to 'beep' every time a new or updated broadcast message is received.

1. Press . Select **Broadcast**.
2. Select **Alert**.
3. Select **On** or **Off**.
4. Press **Exit** or to return to the standby display.

To delete or edit a message from the list

Message types put into the selection list can be deleted and changed.

1. Press . Select **Broadcast**.
2. Select **Message types**. Select **Options**.
3. Select **Delete**, **Edit** or **Get from list**.
4. Press **Exit** or to return to the standby display.

Broadcast language

All the broadcast messages can be shown in several languages.
To select the language of your choice,

1. Press . Select **Broadcast**.
2. Select **Language**.
3. Use or to select a language from the displayed list.
   Press to validate.
4. Press **Exit** or to return to the standby display.

Phone settings - customising your phone

Keypad lock

When keypad lock is turned on it prevents accidental operation of the keys and access into the menus. The key tones are also silenced. Keypad lock is suspended during incoming calls and resumed when the call is terminated. Emergency calls can still be made. If a key is pressed the display will give a reminder that keypad lock is on.

There are two ways to turn keypad lock on and off:

- Directly from the keypad in the standby display,

1. Press and hold down # to turn keypad lock on.
   The display will show 🔒.
2. Press **Unlock** plus # to turn keypad lock off.

- Using the menu,

1. Press . Select **Settings**.
2. Select **Keypad lock** to turn keypad lock on.
3. Press **Unlock** plus # to turn keypad lock off.

☑ If the right softkey has been programmed with another function (see page 60), holding the # key will lock/unlock the keypad.
Keypad lock is cancelled when connected to the handsfree car kit.

Language selection

All the display messages can be shown in several languages.
To select the language of your choice,

1. Press . Select **Settings**.
2. Select **Language**.
3. Use or to select a language from the displayed list.
   Press to validate.
4. Press **Exit** or to return to the standby display.

☑ To reset the phone to the language of the SIM enter *#0000#.
To reset the phone language to English enter *#0044#.

Alert mode

To avoid disturbing others you can turn off the audible incoming ring tone as well as all alert and alarm tones.

☑ If either of the' Vibrate' or 'Vibrate then ring' options are chosen all the alert and alarm tones are replaced by the vibrating action.

There are two ways:

- Directly from the standby display,

1. In the standby display, pressing will display **Ring**, **Vibrate**, **Vibrate & ring** or **Vibrate then ring**.
2. Scroll to the desired setting. Press to validate your choice. (If any of the vibrate options are selected the phone will briefly vibrate)
   will appear in the display.

☑ 1. If Ring is selected but the ring tone volume has been set to off the icon will appear in the display.
2. The icon will appear in the display if Vibrate, Vibrate & ring or Vibrate then ring is selected. It takes precedence over the icon.

• Using the menu,

1. Press ▷. Select **Settings**.
2. Select **Tones**.
3. Select **Alert tones**.
4. Select **Ring**, **Vibrate**, **Vibrate & ring** or **Vibrate then ring** to validate your choice.
5. Press **Exit** or ↩ to return to the standby display.

☑ If Ring is selected but the ring tone volume has been set to off, the icon will appear in the display.
The ring tone volume off setting is not saved when the phone is turned off.
When the phone is connected to either the Desk Top Charger, HF kit, CLA or AC adaptor the vibrator mode selection is temporarily inhibited and the phone will ring instead.

Ring tone selection

You can choose the sound of the incoming ring tone from a selection of 12 ring tone melodies stored in the phone.
To hear your chosen ring tone melody, wait several seconds before confirming your choice. The melody will be played.
Ring tone selection is made through the **Settings** menu:

1. Press ▷. Select **Settings**.
2. Select **Tones**.
3. Select **Ring tone**.
4. Use △ or ▽ to listen to the different ring tones. Press ▷ to select the current tone.
5. Press **Exit** or ↩ to return to the standby display.

☑ Separate tones must be selected for Line 1 and Line 2.

Volume adjustments

The volume levels of the ring tone, key tones, alarm tones (alarm clock and low battery alarm) and the incoming audio can all be individually adjusted from the standby display by pressing △ or in the **Settings** menu:

1. Press ▷. Select **Settings**.
2. Select **Tones**.
3. Select **Volume**.
4. Select **Ring**, **Keys**, **Conversation** or **Alarm**.

The display will confirm the selection naming the volume to be adjusted.

5. Use ⌃ or ⌄ to adjust the setting.
6. Press **OK** to validate the setting.
7. Press **Exit** or to return to the standby display.

During a call, you can adjust the conversation volume by using ⌃ or ⌄.

☑ If the ring tone volume level is set to Off the warning icon will appear in the display.

Ramping

Ramping is a feature that when turned on will cause the incoming ring tone to gradually increase to the maximum volume level if the call is not answered after the first ring.

1. Press ⌄. Select **Settings**.
2. Select **Tones**.
3. Select **Volume**.
4. Select **Ramping**.
5. Select **On** or **Off**.
6. Press **Exit** or to return to the standby display.

☑ When turned on the volume of the incoming ring tone will start from the minimum and rise to the maximum volume until answered.

Backlight - setting

This option allows the user to control the operation of the backlight during key entry or incoming ring tone.

There are two settings:

- **On for 10 sec.**: the display and key backlight will stay on for 10 seconds after the last key press or incoming call.
- **Off**: the backlight will stay off.

1. Press ⌄. Select **Settings**.
2. Select **Display**.
3. Select **Backlight**.
4. Select either of the two settings. Press ⌄ to validate.
5. Press **Exit** or to return to the standby display.

☑ When the phone is connected to either the Desk Top Charger, HF Car Kit, CLA or the AC Adaptor the backlight is always on.

Display contrast

The contrast of the display can be adjusted to suit the surrounding light conditions.

To modify the display contrast,

1. Press ▷. Select **Settings**.
2. Select **Display**.
3. Select **Contrast**.
4. Adjust the contrast using △ or ▽.
5. Press **OK** to validate the setting.
6. Press **Exit** or ↩ to return to the standby display.

Any key answer

This feature enables any key (except ↩ and **No ring**) to be pressed to answer an incoming call.

1. Press ▷. Select **Settings**.
2. Select **Keys**. Select **Any key answer**.
3. Select **On** or **Off**.
4. Press **Exit** or ↩ to return to the standby display.

Softkeys - programming the softkeys

The function of the softkeys can be changed to suit the user. The options available are shown in the menu during selection.

There are two ways:

- Directly from the standby display,

1. Press and hold down or .
2. Use △ or ▽ to scroll through the choice of softkey options.
3. Press **Select** to validate your choice.
4. The screen will confirm your selection and return to the standby display showing your new softkey function.

- Using the menu,

1. Press ▷. Select **Settings**.
2. Select **Keys**.
3. Select **Softkeys functions**.
4. Select **Left softkey** or **Right softkey**.
5. Press **Select** on the softkey option of your choice.
6. Press **Exit** or ↩ to return to the standby display.

☑ **(.....)** in the display means that a previously SIM dependent or subscription service assigned to that softkey is no longer available. For example Line 2 selection.

Auto answer

This feature only works when the phone is connected to a handsfree car kit or headset and enables the phone to automatically answer an

incoming call after approximately 5 seconds without having to press any keys.

1. Press ⊙. Select **Settings**.
2. Select **Auto features**.
3. Select **Auto-answer**.
4. Select **On** or **Off**.
5. Press **Exit** or to return to the standby display.

Auto retry

This feature enables the phone to automatically redial the number of a failed call, due to a system busy or unavailable signal from the network, for up to 10 times after which it will stop.

1. Press ⊙. Select **Settings**.
2. Select **Auto features**.
3. Select **Auto-retry**.
4. Select **On** or **Off**.
5. Press **Exit** or to return to the standby display.

When activated, **Auto-retry** and a countdown timer to the next call attempt will appear in the display. An auto-retry warning tone will sound each time a new call attempt is made.
If the automatic redialling is successful proceed with the call as normal. Pressing **Exit** or any key during the retrying process will cancel auto-retry and end the dialling process for that call.

Security features

The security features described in this section protects your phone from unauthorised use.
When requested, enter the code, which appear as asterisks (*) and press **OK**.
If you make a mistake press **Clear** and enter the correct digit(s).

☑ Avoid using codes similar to emergency numbers such as 999 or 112 to prevent accidental dialling of these numbers.

KEEP A RECORD OF YOUR CODES AND KEEP THEM IN A SAFE PLACE. FAILURE TO DO SO WILL CAUSE YOU CONSIDERABLE INCONVENIENCE.

Phone lock code

A phone lock code is supplied with the phone for security purposes. It prevents unauthorised access to the phone and to the WAP™ settings. The factory setting is **0000**. We suggest that you reset this code and keep it in a safe place, separate from the phone.
The phone lock code is also required to reset the call timers. When en-

abled the code will be asked for each time the phone is turned on.
To change the phone lock code,

1. Press ◯. Select **Settings**.
2. Select **Security**. Select **Phone lock**.
3. Select **Change code** and follow the display prompts.
4. Press **OK** to validate the new code.
5. Press **Exit** or to return to the standby display.

To turn on or off the phone lock code,

1. Press ◯. Select **Settings**.
2. Select **Security**. Select **Phone lock**.
3. Select **On** or **Off**.
4. The phone lock code will be requested to authorize your selection.
5. Press **Exit** or to return to the standby display.

☑ When phone lock is on emergency calls can still be made.

PIN code

Your SIM is provided with a 4-8 digit PIN code to protect it from unauthorised usage. When enabled the PIN code will be asked for each time the phone is turned on. If you enter the wrong PIN code three times in succession your SIM card will be blocked and you will need the 8 digit PUK code from your service provider (see page 63).
To turn on and off the PIN,

1. Press ◯. Select **Settings**.
2. Select **Security**.
   If already off, **PIN enable** will be shown.
   If already on, **PIN disable** and **PIN change** will be shown.
3. Press **Select** and follow the display prompts.
4. Press **OK** to validate your entry.
   PIN enabled or **PIN disabled** briefly displayed will confirm your action.
5. Press **Exit** or to return to the standby display.

To change the PIN code (PIN must first be enabled),

1. Press ◯. Select **Settings**.
2. Select **Security**.
3. Select **PIN change** and follow the display prompts.
4. Press **OK** to validate your new PIN. Confirmation will be displayed.
5. Press **Exit** or to return to the standby display.

PIN2 code

The PIN2 code prevents unauthorised access to some features of the phone such as turning on or off FDN operations, modifying the FDN phonebook, setting calls costs to zero, modifying the costs display features. It can be changed but not turned on or off.
To change the PIN2 code,

1. Press ⊙. Select **Settings**.
2. Select **Security**.
3. Select **PIN2 change** and follow the display prompts.
4. Press **OK** ⊙ to validate your new PIN2 code.
5. Press **Exit** ⊖ or ⊖ to return to the standby display.

PUK code

The PUK (PIN unblock key) is an 8 digit code supplied by your service provider. It is used to 'unblock' a PIN whose code has been entered incorrectly three times. A PUK code cannot be changed.
When requested enter the PUK code and press **OK** ⊙. You will then be asked to enter a new PIN code. Follow the display prompts to reset the PIN code.

☑ If you enter the wrong PUK code 10 times in succession your SIM card cannot be used again. Contact your service provider for a new card.

PUK2 code

The PUK2 is an 8 digit code supplied by your service provider. It is used to unblock a PIN2 whose code has been entered incorrectly three times. A PUK2 code cannot be changed. When requested enter the PUK2 code. You will then be asked to enter a new PIN2 code. Follow the display prompts to reset the PIN2.

☑ If you enter the wrong PUK2 code 10 times in succession you will be unable to use the features requiring the PIN2 code. Contact your service provider for a new card.

Call barring password

The call barring password is used to select the call barring levels outlined in the **Services** - **Call barring** menu (see page 53). It is obtained from your service provider.
To change the password,

1. Press ⊙. Select **GSM Services**.
2. Select **Call barring**.
3. Select **Change password** and follow the display prompts.
4. Press **OK** ⊙ to validate.
5. Press **Exit** ⊖ or ⊖ to return to the standby display.

Summary of code/password entry chart

Password	Length	Number of tries allowed	If blocked or forgotten
Unlock code	4 digits	Unlimited	Return phone to manufacturer
PIN	4-8 digits	3 tries	Unblocked by use of PUK code
PIN2	4-8 digits	3 tries	Unblocked by use of PUK2
PUK	8 digits	10 tries	Contact your service provider
PUK2	8 digits	10 tries	Contact your service provider
Call barring password	4 digits	Network determined	Contact your service provider

Time & Date setting

To set either the current time and/or date:

1. Press ◯. Select **Settings**.
2. Select **Time & date**.
3. Select **Set time** or **Set date**.
4. Enter the time (in 24 hour format) or date in the format shown. (If required use ◯ and ◯)
5. Press **OK** ◯ to validate your selection.
6. Press **Exit** ◯ or ◯ to return to the standby display.

☑ 1. An error message is displayed if a wrong entry is made.
2. The time/date is permantly displayed whilst the phone is on. The year is not shown.
3. An internal battery is provided inside the phone to maintain the date and time setting for up to 3 hours when the phone is switched off and without a battery, or with a completely discharged battery attached. After this 3 hour period you may need to reset the clock when you again switch on the phone.

Default (factory) settings

Use the **Settings** menu to return the phone settings back to the factory settings. This has no effect on the phonebook entries or phone lock code.

1. Press ◯. Select **Settings**.
2. Select **Default settings**.
3. Select **Yes** or **No**.

❹ Press **Exit** or to return to the standby display.

The following are the factory default settings:

Feature	Factory setting
Alert Tones	Ring
Ring Tones	Trium
Volumes, **Ring**, **Key**, **Speech** and **Alarm**.	Mid values
Backlight and **Contrast**	On for 10 sec. and mid value
Any Key, **Auto-Retry** and **Auto Answer** features.	Off
Ramping	Off

Using the office tools

The **Office Tools** menu contains a scratchpad, a currency-converter calculator and an alarm clock.

Scratchpad

Up to 5 separate entries of 20 characters can be stored in the scratchpad**.**

❶ Press . Select **Office Tools**.
❷ Select **Scratchpad**.
❸ Select **Read**. Use or to scroll through the entries. Select **Write** to make a new scratchpad entry.

Pressing **Options** when reading entries will give access to the following menu:

Item	Action
Store	To save a number to the phonebook
Edit	Modifies an entry
Delete	Deletes an entry
Delete all	Deletes all entries
Call	Calls the number displayed in the entry

Currency-converter

This useful feature converts currencies. However to use the converter the currencies and the exchange rate have first to be set up. The conversion is calculated on the per unit exchange rate of the second currency selected.

To select the currencies and the exchange rate,

1. Press ▷. Select **Office Tools**.
2. Select **Currency converter**.
3. Select **Settings**.
4. Enter the first currency name (e.g. Dollar). Press **OK**.
   Enter the second currency name (e.g. Yen). Press **OK**.
5. Enter the exchange rate using # to enter a comma.
   Press **OK** to validate the entry.
6. Press **Exit** or ↩ to return to the standby display.

☑ If you wish to use your Currency-converter as a Euro converter for participating currencies to the European Monetary Union ("Euroland currencies"), please enter the complete Euro exchange rate with six significant figures. For example: 1 Euro = £ 1.52.

To calculate the conversion between the chosen currencies,

1. Press ▷. Select **Office Tools**.
2. Select **Currency converter**.
3. Select one of the two first options.
   In our example: either **Dollar->Yen** or **Yen->Dollar**.
4. Enter the amount to be converted.
   Press # to insert a comma, if needed.
   Press **OK**. The converted amount will be displayed.
5. Press **Exit** or ↩ to return to the standby display.

☑ Conversion from one Euroland currency to another, or to non-Euroland currencies, should normally follow "triangulation" rules (i.e. conversion of local currency to Euro and then Euro to other local currency). Your Currency-converter does not provide this possibility. Accordingly, the result you obtain shall only be a close approximation.

Alarm clock

This feature enables the user to set a daily 'Reminder Alarm'.
To set a time and turn on the alarm,

1. Press ▷. Select **Office Tools**.
2. Select **Alarm clock** (If a previous alarm time has been entered this time will be displayed).
3. Select **On** and enter the alarm time (in 24 hour format) or press **OK** to accept the displayed time.
   Confirmation will be displayed.
4. Press **Exit** or ↩ to return to the standby display.
   🔔 will be displayed on top of the display.

☑ When 'on' the alarm will operate at the same time every day until turned off.

When the alarm time is reached an audible alert sounds for up to 1 minute and the LED will flash red. **Alarm clock** and a vibrating bell symbol will appear in the display together with the current time and the softkeys, **Valid.** and **No ring**.
If the phone is off at the time of the alarm, the phone will automatically 'power on' and operate the audible and visual alerts described above.
To use as a Reminder or Snooze Alarm,

Press **No ring**, or any other key (except **Valid.**) to stop the alarm. The alarm icons remain in the display and the alarm will ring again 3 minutes later.
or
Press **Valid.** to acknowledge and switch off the alarm.

If 'off' before the time of the alarm the phone remains 'on'. If the phone is locked or the PIN setting is on it remains in this locked condition until actioned by the user.
If the alarm is acknowledged but not validated the alarm indicators will remain in the display for up to 15 minutes after which time the phone will either turn off, or, if 'on' at the time of the alarm, will revert back to the normal standby display.

1. Until acknowledged the alarm will ring for 1 minute. Pressing any key (other than the Valid. softkey) will stop the alarm sounding but not switch off the alarm, it will be repeated 3 minutes later. If the Valid. softkey is not pressed after the 3rd (and final) time the alarm rings it will not be repeated but the phone remains on, in the alarm display mode, for up to 15 minutes after which it will revert back to the state it was in before the alarm time was reached.
2. If a call is in progress, or the phone is in a transitory state (during power off for example) at the time of an alarm it will be delayed until after the call or the transitory state has finished.
3. If the alarm time is reached during a call a special 'In Call' alert beep will sound every 3 minutes. The alarm can be validated in the normal way.
4. If the alarm time is reached during an outgoing, or incoming call setup sequence, the alarm is suspended until the call is established and the mobile behaves as in 3 above.
5. If the battery is detached within 15 minutes of the alarm time the alarm will sound immediately. If later than 15 minutes only the visual indicators will be shown. Press the Valid. softkey to validate and stop the alarm.

To turn off the alarm,

1. Press . Select **Office Tools**.
2. Select **Alarm clock**.

3. Select **Off**. Confirmation will be displayed.
4. Press **Exit** or to return to the standby display.

Caution - Please remember to turn off the alarm feature when boarding an aircraft where the use of a mobile phone is not permitted and is illegal. Alternatively you can remove the battery after turning off the phone. See the General safety warnings on page 2.

Games

The availability and appearance of the games described hereafter are dependent upon the services provided by your network operator.
There are two games in the phone, **Reshape** and **Push**.
The instructions to play each game is shown when the game selection is made.
The **Options** item in the menu enables you to select the sound effects - music, electronic sound effects or no sound.

To select a game,

1. Press . Select **Games**.
2. Choose the game you wish to play and press **Select** or .
3. Select **Help** for instructions on how to play the game and the controls to be used.
4. Select **Code** to enter and play the game at your skill level.
5. Select **Play** to start the game.

Reshape and **Push** have various skill levels. When each level has been successfully played within the allowed time you will play at the next level.
After successfully playing 'X' amount of levels you will be given a code to enable you to re-enter the game at your previously attained skill level.
Scores can also be recorded against the name of the player.
If a call is received whilst a game is being played the normal received call display will be shown and the call is answered in the normal way. When the call is finished the game will be resumed.
To exit from the games menu press **Exit** or press to return to the standby display.

Internet

The Geo-GPRS has an Internet browser allowing you access to services, such as News, Sports, Weather, TV Listings etc, supplied by your operator and/or by your Internet provider via the Internet.
The types of services offered will be dependent upon the Internet

provider of that service or your network operator.
To gain access to these services via your phone make sure you have a DATA subscription.
Also check with your network operator whether the connection settings have been pre-programmed into the phone prior to delivery or whether you have to manually enter and store the settings yourself.
In either case once the settings have been stored you can start using this feature as required and described below.

☑ Access to the connection settings may depend upon whether the settings have been pre-programmed into the phone prior to shipment from the factory. In some cases and to avoid errors these settings may be 'Locked' and not be user programmable.

Storing/editing the connection settings (obtainable from your network operator)

Before proceeding and if you have not already done so please enter the current time and date as described on page 64.
To select the preferred bearer,

1. Press ⊙. Select **Internet**.
2. Select **Settings**.
3. Select **Access parameters** and, if active, enter the 4 digit lock code (default code **0000**) and press **OK**.
4. Select **Preferred bearer**. Select the bearer (**Circuit bearer** or **Packets bearer**) and press **Select**.
5. Press **Exit** or ⌂ to return to the standby display.

To create a new profile,

1. Press ⊙. Select **Internet**.
2. Select **Profiles**. Select an empty profile (**[...]**) and press **Options**.
3. Select **Modify**. Enter a **Profile name**, a **Phone number**, a **GPRS access** (packet gateway) name, a **Login name**, a **Login password** (each character will turn into a star (*****) after a short while), an **IP address**, a **Port number** and a **Home page** address.
   Validate each entry by pressing **OK**.
   The new profile will appear in the profiles list.
4. Press **Exit** or ⌂ to return to the standby display.

To modify the auto-disconnection settings (disconnects the mobile from the Internet after a set period of inactivity),

1. Press ◯. Select **Internet**.
2. Select **Settings**.
3. Select **Access parameters** and, if active, enter the 4 digit lock code (default code **0000**) and press **OK**.
4. Select **Auto-disconnect**.
5. Select the bearer (**Using circuit** or **Using packets**), enter the period (0 - 60 minutes) and press **OK**. **0** deactivates the auto-disconnect function.
6. Press **Exit** or to return to the standby display.

1. You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.
2. If the PPP access phone number, login names and password, Home page http address and IP address are not predefined, these are obtainable from your network operator and/or Internet provider.
3. Selecting PPP Access or Profiles again will allow you to change and/or modify any of your settings.

Personalising your connection settings

The following user settings are available enabling you to optimise the behaviour of your phone whilst connected to the Internet.

1. Press ◯. Select **Internet**.
2. Select **Settings**.
3. Select **User preferences**, scroll to the following items and turn on or off as required:

Option	Action
Download pictures	Some of the Internet pages may have pictures attached which will take time to download. Selecting the **Off** option will reject the pictures thereby speeding up the text downloading time
Scripting	Used to allow or forbid the execution of scripts within a page allowing entering data or computations to be performed when the page is loaded
Factory settings	Choosing the **Yes** option will restore all the factory default settings (Scripting On, Download pictures On, Auto-disconnect on circuits: 5 minutes, Auto-disconnect on packets: 15 minutes)

❹ Press **Exit** or to return to the standby display.

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

Going online and onto the Net

To gain access to the online services offered by your network operator,

❶ Press . Select **Internet**.
❷ Select **Home page**.
❸ **Connecting to** followed by your proxy name will be displayed whilst access is taking place followed by the word **Loading...** (of the home page).

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

Once connected you will be presented with your Internet or operator's choice of menu options. The icon at the bottom of the display indicates a 'live' connection.
Use / and/or the softkeys to move up and down the menu, to make selections as well as move backwards and forwards through the menu. Use the left and the right softkeys when selected topics in a menu are highlighted.

Use of whilst online

In the absence of **Options** whilst online pressing during a live connection will present an options menu as follows:

Item	Action
Back	Returns to the previous page or card
Zoom +/-	Increases or decreases the displayed text size
Disconnect	Disconnects the browser from the network but leaves the current page locally active with the phone browser
Clear cache *	Clears the cache memory
Add bookmark *	Adds a current card or page to the list of bookmarks
Go to bookmark *	Goes to a previously stored bookmark
Home page	Reloads and returns to the home page
Reload	Reloads the current page
Close session	Disconnects the phone from the Internet

* The appearance of these items in the above options menu may be operator dependent and/or the settings in the **User preferences** menu.

Ending the online connection

To end the Internet connection,

Press .

☑ You can also select Close session item under the options menu.

Other site

Use of this option within the **Internet** menu allows the user to enter a known Internet address site and to go to this site directly from dial up. However unlike the Bookmark feature addresses are not stored and must be entered each time this feature is used.

Creating bookmarks

There may be some services that you wish to revisit or return to more frequently than others. These services (or pages) can be stored as *bookmarks* which then provide direct access links into the Internet. They can only be used if available on the current connection settings of your network operator and/or Internet provider.

There are two ways to add up to a maximum of 5 bookmarks:

- Directly from the standby display,

1. Press . Select **Internet**.
2. Select **Bookmarks**.
3. Press **Options**, select **Modify** and enter the following:

Option	Action
Alias	Name you wish to give to your bookmark
Home page	Home page address (if known)

4. Press **OK** to validate each entry.
5. Press **Exit** or to return to the standby display.

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

- During a live connection whilst viewing a page,

1. Press to display the options menu.
2. Select **Add bookmark**, enter the Alias name and press **OK**.

☑ Bookmarks can only be Edited or Deleted from the Bookmarks item under the Internet menu options whilst offline.

Using bookmarks

Bookmarks can be used:

- directly from standby display,

1. Press . Select **Internet**.

❷ Select **Bookmarks**.
❸ Select the bookmark name you require.

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

- whilst you are browsing the Internet:

❶ Press ✆ to display the options menu.
❷ Select **Go to bookmark**.
❸ Select the bookmark name you require.

Selecting a profile

You may select a WAP™ profile to connect to at start-up.
The list of profiles is in a list that includes all profiles.
If only one profile is present, this menu item is hidden and this profile is selected by default. If several profiles are defined, the first profile of the list is selected by default when starting a WAP™ session.
To select a profile,

❶ Press ⊙. Select **Internet**.
❷ Select **Profiles**.
❸ Use ⌃ or ⌄ to scroll through the profiles list.
Press **Select** ⌐ to validate the desired profile.
❹ Press **Exit** ↩ or ⌂ to return to the standby display.

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

For profile parameters management, see page 69.

Clearing the cache

During a live Internet session some of the information and services you have accessed have been 'stored' in an area of memory called the cache. You can clear this memory.
To clear the cache,

❶ Press ⊙. Select **Internet**.
❷ Select **Clear cache**.
❸ Select **Yes**. Confirmation will be displayed.
❹ Press **Exit** ↩ or ⌂ to return to the standby display.

☑ You can also access the Internet menu directly by pressing the Internet softkey from the standby display (provided you haven't personalised the left softkey). If the phone lock code is active it will be requested when entering the Internet menu.

Infrared port

The infrared port allows you to make data exchanges between your mobile and other devices (provided they have an Infrared port).
To initiate a transfer via the infrared port, your mobile must be placed facing another infrared port before port opening starts.
Then the two ports can be opened and synchronised. After that the requested transfer can be performed. Objects are transferred one by one.

Opening the infrared port

Opening the infrared port allows you to receive information via this port.
Once opened, the infrared port can be used for any kind of transfer.
The infrared port is automatically disconnected after some time.
You have to open the infrared port if you wish to reveive data via your infrared port or if you wish to transfer non-structured data via the infrared port (like fax or file transfer to the network for instance).
To open the infrared port,

1. Press ⊙. Select **Infrared port**.
2. Select **Open**.
   Confirmation will be displayed. will be displayed on top of the standby display.

When the infrared port is open, objects can be received. When an object is received, the idle screen is masked by the new object reception status.

Closing the infrared port

Closing the infrared port closes all infrared sessions (OBEX and IrCOMM sessions).
To close the infrared port,

1. Press ⊙. Select **Infrared port**.
2. Select **Close**.
   Confirmation will be displayed.

Transfering a phonebook card via the infrared port

You can transfer phonebook cards via the infrared port:

1. Place your mobile opposite the other device infrared port.
2. Open the other device infrared port.
3. Display the card you wish to transfer as explained in section "Viewing and calling numbers in the phonebook", page 38.

4. Press **Options**. Select **Send by IrDA**.
   The infrared port will first be opened.
   The transfer will then be performed.
5. When the transfer is complete the phone returns to the phonebook card display.
6. Press **Exit** or to return to the standby display.

GSM man machine interface codes

The phone supports the standard GSM key sequences using the * and # characters sent directly from the keypad to the network. These sequences are used to activate all the supplementary services provided by the network.

☑ Consult your service provider for a complete list.

Appendix

Accessories list

The following are the main accessories available for the phone:

Vehicle kits	Part numbers
CLA car adaptor	FZA-0009A
Headset	FZA-0024A
Simple holder	FZA-0021A
Simple handsfree adaptor (with CLA base & micro)	FZA-0010A
Full handsfree adaptor (with power cable)	FZA-0012A
Chargers and batteries	**Part numbers**
AC adaptor (UK)	FZA-0003A
AC adaptor (European version)	FZA-0002A
AC adaptor (Asian version)	FZA-0005A
AC adaptor (Australian version)	FZA-0004A
Desktop charger (for phone + spare battery)	FZA-0014A
Standard battery	FZA-0001A
Data and miscellaneous	**Part numbers**
Contact Trium Data software kit (Contact Trium S/W + PC cable)	FZA-0019A
Belt clip	FZA-0027A

Glossary

Expression	Meaning
AC/DC charger	Alternating Current/Direct Current charger
Active call	The call currently in conversation
ALS	Alternate Line (Line 2) Service
AoC	Advise of Charge - subscription service
CB	Cell Broadcast
CLA	Cigarette Lighter Adaptor
CLI	Caller Line Identity - displays callers telephone number
Conversation mode	When the phone is making or receiving a call
CSD	Circuit Switched Data
CUG	Closed User Group - requires network support
DES	Data Encryption standard
Diverting	Diverts incoming calls to the phone to another number
DTC	Desk Top Charger
DTMF	Dual Tone Multifrequency Tones
FDN	Fixed Dialling Number
GPRS	General Packet Radio Service
GSM	Global System for Mobile communications
HF	Handsfree Car Kit
http	HyperText Transfer Protocol
IN	Information Numbers of your operator or service provider
IP	Internet Protocol
LCD	Liquid Crystal Display
LED	Light Emitting Diode
MMI	Man machine Interface
PIN/PIN2	Personal Identification Number. Supplied by your network/service provider
PPP	Point to Point Protocol
PUK/PUK2	PIN Unblocking Key. Used to unlock PIN and PIN2. Supplied by your network/service provider
Roaming (Rm)	The ability to use your telephone on networks other than your home network at home or abroad.

SDN	Service Dialling Number. Of your operator or service provider
SIM	Subscriber Identity Module. Supplied by your network/ service provider
SMS	Short Message Service
SPN	Service Provider Name
SR	Status Report - relates to SMS messages
Standby mode	When the phone is on, registered onto a network but not making or receiving a call
URL	Uniform Resource Locator
WAE	Wireless Application Environment
WAP™	Wireless Application Protocol
WDP	Wireless Datagram Protocol
WML	Wireless Mark-up Language
WMLS	Wireless Markup Language Script
WSP	Wireless Session Protocol
WTAI	Wireless Telephony Application Interface
WTP	Wireless Transport Protocol

Trouble shooting

Problem	Possible cause and solution
Phone will not switch on	Check that the battery is fully charged and correctly connected to the phone.
Charging LED not lit red and no flashing battery Icon	There may be no mains supply. Check mains supply. The AC/DC charger may be faulty. Return to your dealer and try substitution with another Mitsubishi adaptor. If faulty contact your dealer.
Short standby and talk times	Cell broadcast is permanently on, using more battery power. Phone is in a poor signal area and therefore always on full power. Incorrect charging and discharging. Always charge and discharge your battery fully. The battery is wearing out. Replace the battery
Calls cannot be made or received	Check that you have at least one signal strength bar (▂▄▆). Try in a stronger signal strength area. If the name of a network is not displayed, check your SIM is OK, check registration with your network/service provider. Call barring option is turned on. Turn it off (see page 53). Call cost limit is reached (see page 48).
Stored telephone numbers cannot be recalled	Fixed Dialled Number or Call Barring features are turned on. Check features and turn them off (see pages 40 and 53).
Numbers cannot be entered in the display	Keypad lock is on (is displayed). Press **Unlock** and # to turn off.
Phone switches on but there is no display	Display contrast is turned down to low. Reset contrast (see page 60).
Battery icon not flashing 1-2-3 during charging	Indicates a charging or battery problem. Turn off and disconnect the charger. Reconnect and try again. If the problem remains contact your dealer.
Flashing	There is not enough memory to store another SMS message. You must delete one or more of the existing stored messages (see page 41).
(.....) softkey	Function no longer available in the SIM or was subscription dependent. Reprogramm the softkey (see page 60).

Error messages

Problem	Possible cause and solution
Allowed credit reached!	You are trying to place an outgoing call and the allowed credit is already reached. The allowed credit limit is reached during an outgoing call (the call is then aborted).
Busy	You are trying to make a call and the call fails because the destination number is already engaged in conversation.
Call failed	The user is unreachable. The outgoing call fails due to: CUG is in use and the call is not allowed/unrecognised by the network or the network cannot take the call due to system busy or the number is out of order or the number is unreachable or the network does not answer or the option to hide your phone number when calling is not supported by the network Control and verification of CUG parameters not confirmed, CUG availability on network. Control the ability to hide your ID when making a call (service availability in network).
Cancelled. No type selected	Cell broadcast activation has been requested but no message type has been selected.
Cannot execute command	You have made a request which is impossible to be executed in the current call situation.
Can't display message	The short message text cannot be displayed (characters not recognised, incorrect format etc...)
Check SIM!	There is no SIM present or the SIM is incorrectly inserted. See page 8 for more details.
Check your password	You changed the call barring password or You changed the call barring service status. The entered password seems to be wrong or incorrect.
Check your request	You made a request for a service that seems to be impossible to fulfil.
Check your subscription	You tried to activate a GSM service. You are requested to check your subscription regarding the related service rights of use/access.

CUG call failed	You tried to make a call in a CUG (Closed user group) and the call is rejected by the network because the network does not recognise the CUG parameters or the called user is not in the same CUG or the called user has no CUG association.
Error!	The network cannot perform your request and generates an error result.
Failed	An SMS sending process failed (the short message cannot be sent).
Incorrect entry	You entered a character string with a syntax error.
Invalid number	You tried to make a call and the call is rejected by the network because the network does not recognise the phone number structure or you tried to store a phone number that is too long to be stored in the selected location or you tried to move a phone entry to a location that is unable to receive the phone number (phone number too long)
Keypad locked "Unlock" # to unlock	A press on any key is made with keypad locked.
Low battery!	This text is displayed when the battery becomes too low and the mobile will soon be switched off automatically.
Network busy	You tried to make a call. The call is rejected by the network due to congestion problems.
Network not allowed	When selecting network manual search, you have selected a network that rejects the connection.
New PIN incorrect. Try again	Changing PIN: the new PIN code values differ (value control).
New PIN2 incorrect. Try again	Changing PIN2: the new PIN2 code values differ (value control).
No action performed	When a copy/move operation is made on memories but no conditions have been changed (same memory, number and name).
No response	You made a call to a remote user and no response has been received.
Not allowed	Your number/character entry is not allowed.
Not allowed (fixed dialling)	A call is tried, but cancelled due to fixed dialling control (the number dialled does not match with one of the fixed dialling numbers in memory).
Not Available	There is no more SIM storage.
Number changed	The called number has changed.

PIN blocked	A wrong PIN code has been entered 3 times.
PIN2 blocked	A wrong PIN2 code has been entered 3 times.
PUK2 blocked	A wrong PUK2 code has been entered 10 times. The SIM services protected by the PIN2 code have now been permanently disabled.
Reaching allowed credit!	The cost limit is about to be reached. The connected call will end automatically when the limit is reached.
Ring volume Off	The ring volume is set to 0 (no volume).
Service not available	Activating some GSM services that are not available on the network
SIM blocked. Contact provider	A wrong PUK has been entered 10 times. The SIM card has been permanently disabled and needs to be replaced by a new one.
SIM blocked. Enter PUK:	A wrong PIN code has been entered 3 times. Enter the PUK code to unblock the SIM card.
SIM fixed full **SIM names full** **Phone names full**	The corresponding memory is full.
SMS memory locations are full	The storage of new messages (when writing a new SMS) is impossible.
Wrong code. Try again	A wrong phone lock code has been entered.
Wrong new code. Try again	The new phone lock codes do not match (value control).
Wrong PIN, try again **Wrong PIN2, try again** **Wrong PUK, try again** **Wrong PUK2, try again**	The wrong code has been entered.

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DECLARATION OF COMPLIANCE

Name	: **Mitsubishi Electric Telecom Europe S.A.** **RCS Nanterre B 307 593 129**
Address	: **25, boulevard des Bouvets**
Town	: **Nanterre Cedex**
Postal code	: **92741**

Identification of the product

Nature	: **Mobile Cell Telephone**
Type	: **Dual band GSM 900/DCS 1800**
Sales reference	: **MT-344**
Other information	:

Identification of the notified organization

Name	: **Autorité de Régulation des Télécommunications (ART)**
Identification number	: **0165**
Procedure followed	: **Annex III of the directive 1999/5/CE**

Declares under its entire responsibility that the product described above complies with the following basic applicable requirements (and in particular those in the 1999/5/CE directive):

Article 3.1a: (health protection and user safety)
73/23/CEE in agreement with WGMTE of CENELEC TC 211 B: Final Draft, October 1998

Article 3.1b: (protection requirements concerning electromagnetic compatibility)
89/336/CEE, ETS 300 342-1

Article 3.2: (proper use of the radio-electric spectrum so as to avoid damaging interference)
91/263/CEE, CTR/TBR 19, CTR/TBR 20, CTR/TBR 31, CTR/TBR 32

To this effect, declares that all the radio test series have been carried out.

20 June 2000,

Claude Bertin
Managing Director

Pan European Service

If you require service then in the first instance, you should contact your supplier.
Should you experience any difficulty then please contact your nearest MITSUBISHI location listed below for information on other service centers.

UNITED KINGDOM Tel: (0870) 606 01 51	ESPAÑA Tel: (902) 11 68 58
FRANCE Tel: (0825) 86 82 83	ITALIA Tel: (800) 27 59 02
DEUTSCHLAND Tel: (01803) 33 71 84	IRELAND Tel: (1800) 92 70 12

GSM Service Card

To obtain warranty Service, you will require your original equipment purchase invoice or irrefutable proof of purchase, plus this card, please fill in missing information: Please see warranty terms and conditions for in warranty service.

Date of purchase:

.....

Invoice number:

.....

Dealer name:

.....

Location:

.....

.....

Dealer tel. number:

.....

Pan-european GSM End-user Guarantee Conditions

1. You can benefit from this guarantee only if you are the original end-user purchaser.
2. MITSUBISHI guarantees that for a period of twelve (12) months from the date of purchase from your dealer, the Product shall be free from defects in materials and workmanship. Subject to the conditions below, Mitsubishi will indemnify you against all cost of parts and labour for repairs to or replacement of the product or parts (which may include equipment of similar type) where conducted by an authorised MITSUBISHI GSM service centre. MITSUBISHI shall be entitled to retain product which has been replaced.
3. Any claims must be made to an authorised MITSUBISHI GSM service centre in the countries mentioned in the service card enclosed with the product. In case of difficulty you can contact the Mitsubishi companies listed in the service card to obtain details of your nearest authorised MITSUBISHI GSM service centre. As a condition of this guarantee, the date of your purchase must be confirmed by producing your original invoice from your supplier or your sales receipt, showing the serial number, together with the service card. Final determination of guarantee claim eligibility shall be made by MITSUBISHI. MITSUBISHI shall not be liable for shipment costs to and from an authorised GSM MITSUBISHI service centre and the product travels at your risk.
4. This guarantee does not cover:
   a) battery defects of any nature;
   b) non-compliance with directions for use;
   c) installation or removal charges where the product is installed in a vehicle;
   d) defects or failures caused by accident, misuse, improper installation or improper repair by an unauthorized repairer, alteration or modification, neglect, failure to use for normal purpose, Acts of God, water ingress, use in adverse environmental conditions (humidity or temperature);
   e) cost of or performance of modifications to product to adapt or adjust to conform to national or local safety laws, where such safety laws go beyond harmonised European Union standards;
   f) loss of use of the product or consequential loss of any nature;
   g) loss of use of air-time, loss of use of any loaned equipment or ancillary equipment;
   h) provision of incorrect or insufficient signal on air-time network, upgrading of product software to changes in network operating parameters, mains supply voltage fluctuations, incorrect SIM card (memory card) parameters for connection to airtime retailer;
   i) damage caused by non-MITSUBISHI accessories.
5. Any guarantee claim or service does not extend the original guarantee period unless so required by prevailing national law.
6. This guarantee is valid only if the product is purchased and used in the European Union, Norway, Iceland or Switzerland.

THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.

Trium